Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient)	Good	Good
Not you arted (interpreted as Deficient)	Cood	Cood
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)	Good Good	Good Good
Not reported (interpreted as Dentient)	GOOG	Good
Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient)	Good	Good
not reported (interpreted as beneficial)	GOOG	3004
Net were arted (intermediated as Deficially	Card	Cand
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)	Good Good	Good Good
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient)	Good	Good
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Dickerson et al.	2011	759826
Selvakumar et al.	2011	759831
Selvakumar et al. Branchi et al.	2011 2002	759831 787645
Branchi et al. Branchi et al.	2002 2002	787645 787645
Branchi et al. Branchi et al. Branchi et al.	2002 2002 2002	787645 787645 787645
Branchi et al.	2002	787645
Branchi et al.	2002	787645
Branchi et al.	2002	787645

serum estradiol, progesterone, testosterone									
prostate weight									
serum testosterone and estradiol									
developmental milestones									
number of pups, offspring mortality									
pup sex ratio									
pup weight									
incisor eruption									
open field test									
modified Fox battery: righting reflex, forelim			foreliml	b placing	reflexes,	vertical s	screen te:	st, screen	
climbing test, pole grasping, negative geotax	is, homing	test							
open field test, ultrasonic vocalizations									
gestation length									

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Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Developmental milestones	Developmental
Offspring mortality	Developmental
Sex ratio	Developmental
Weight and size (early life)	Developmental
Dental effects	Musculoskeletal
Activity level	Nervous System

Motor function	Nervous System			
Emotional state/affective behavior	Nervous System			

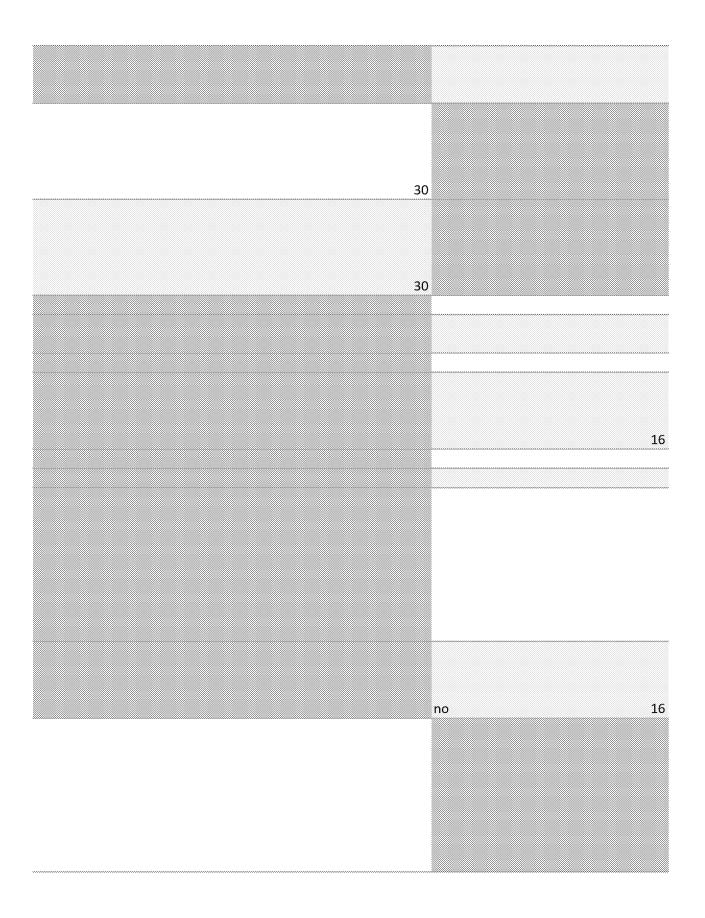
Gestation length and preterm birth	Reproductive

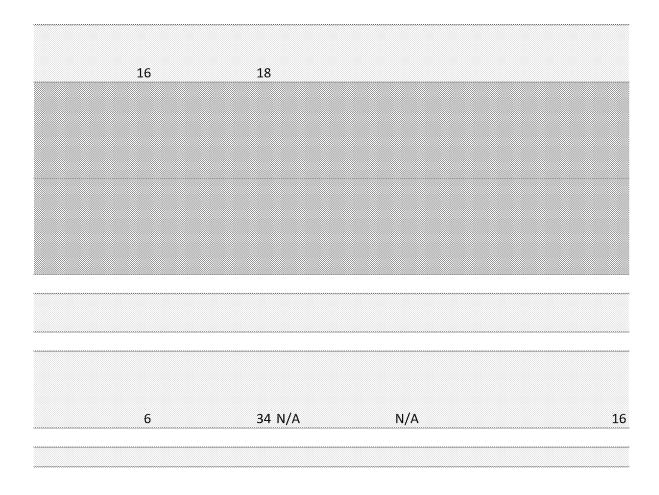
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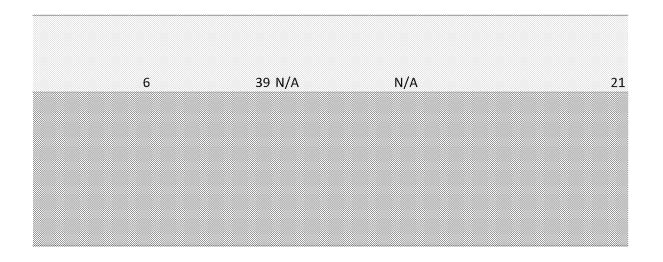
Rat Injection-ip Rat Injection-ip Mouse Oral-gavage Mouse Oral-gavage			
Rat Injection-ip Mouse Oral-gavage	Rat	Injection-ip	
Rat Injection-ip Mouse Oral-gavage			
Rat Injection-ip Mouse Oral-gavage	D. (
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Mouse Oral-gavage			
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Mouse Oral-gavage Mouse Oral-gavage	 		
Mouse Oral-gavage	 Mouse	Oral-gavage	
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Mouse Oral-gavage	Mouse	Oral-gavage	
Mouse Oral-gavage			
	Mouse	Oral-gavage	

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Primary	9	0
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Secondary		

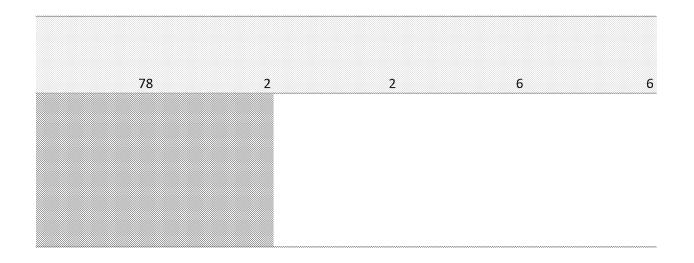
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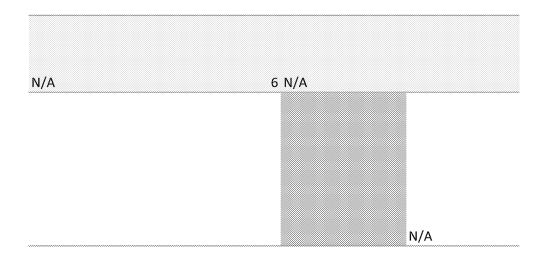


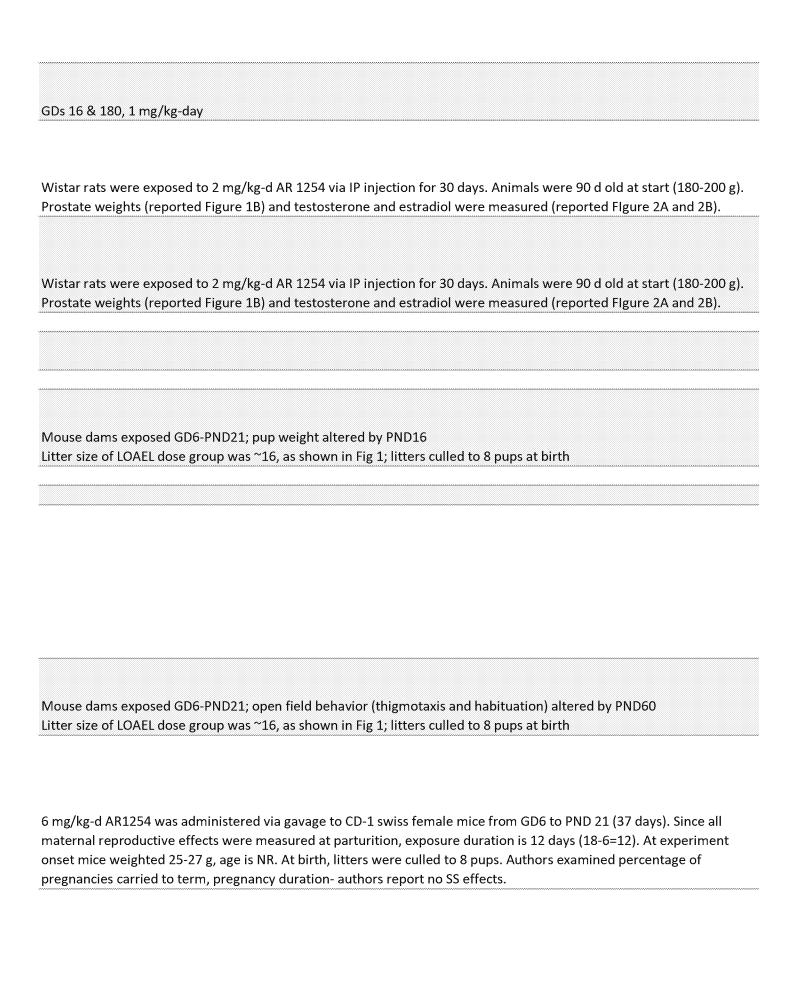


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22	0.9	0.094	0.154	10	21
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18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
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18 18	0.9 0.9	0.229 0.229	0.264 0.264	6 6	21 21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
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Branchi et al.	2002	787645
Hallgren and Darnerud	2002	787674
Hallgren and Darnerud	2002	787674
Pereira and Rao	2007	789216
Pereira and Rao	2007	789216
Pereira and Rao	2007	789216
Pereira and Rao	2007	789216
Bitman and Harris	1972	831152
Bitman and Harris	1972	831152
Bitman and Harris	1972	831152
Kiriyama et al.	1974	1001202
Kiriyama et al.	1974	1001202
Jonsson et al.	1975	1061281
Jonsson et al.	1975	1061281
Jonsson et al.	1975	1061281
Jonsson et al.	1975	1061281
Heinonen et al.	1975	1253088
Heinonen et al.	1981	1253088
HEIHOHEH Et al.	1301	1233000

maternal weight gain microsomal enzyme (cytochrome P-450 isozymes, uridine diphosphoglucuronyl transferase-UDPGT activity), EROD, MROI microsomal enzyme (cytochrome P-450 isozymes, uridine diphosphoglucuronyl transferase-UDPGT activity), EROD, MROI litter size histologyliver weightALP, LDH, ACP histologyliver weightALP, LDH, ACP histologyliver weightALP, LDH, ACP liver lipidsliver weightliver vitamin A concentration and content liver lipidsliver weightliver vitamin A concentration and content liver lipidsliver weightliver vitamin A concentration and content liver cholesterol levelsliver weight (relative) liver cholesterol levelsliver weight (relative) estrous cycle litter size litter production ovarian histopathology plasma progesterone, 17-hydroxyprogesterone

estrous cycle
litter size
litter production
ovarian histopathology
plasma progesterone, 17-hydroxyprogesterone

estrous cycle
litter size
litter production
ovarian histopathology
plasma progesterone, 17-hydroxyprogesterone

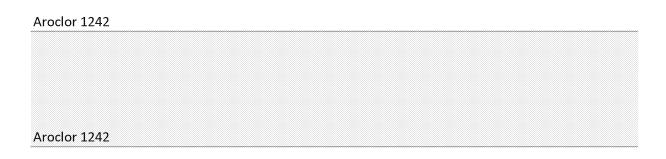
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litter production
ovarian histopathology
plasma progesterone, 17-hydroxyprogesterone
enzyme inductionliver histopathology
enzyme inductionliver histopathology

Maternal weight gain	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Pregnancy/conception rate	Reproductive
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Estrous/menstrual cycle characteristics	Reproductive

Pregnancy/conception rate	Reproductive	
Reproductive organ histopathology, female	Reproductive	
meproductive organi instoputiology, remaie	Reproductive	

Sex hormone levels, female	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary

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roclor 1254	
roclor 1254	
lophen A60 lophen A60	
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Aroclor 1242	



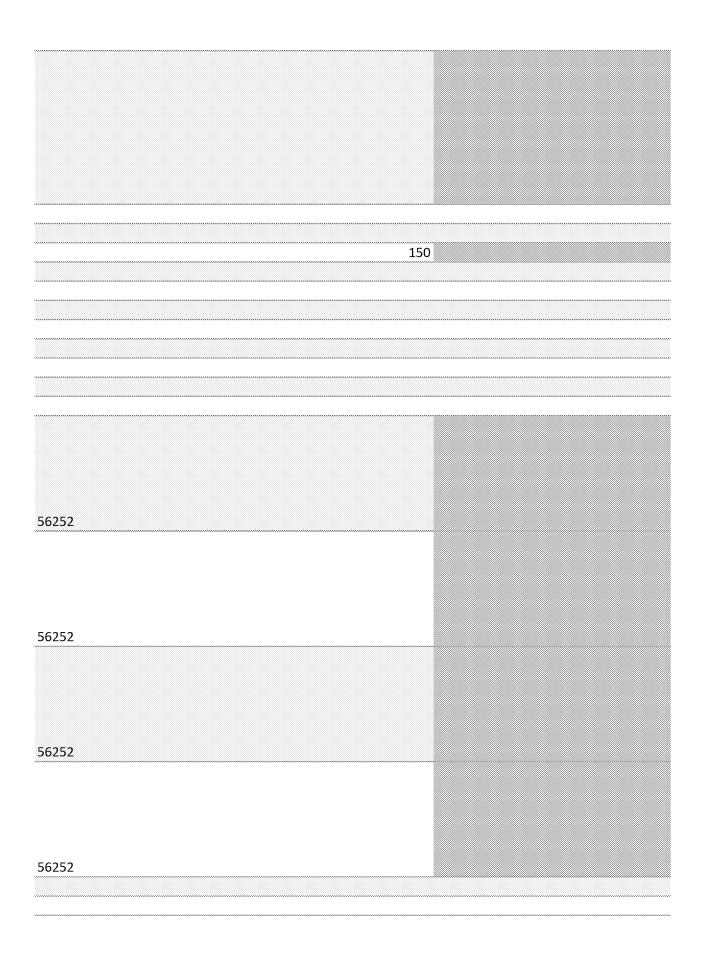
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Clophen C	
Clophen C	

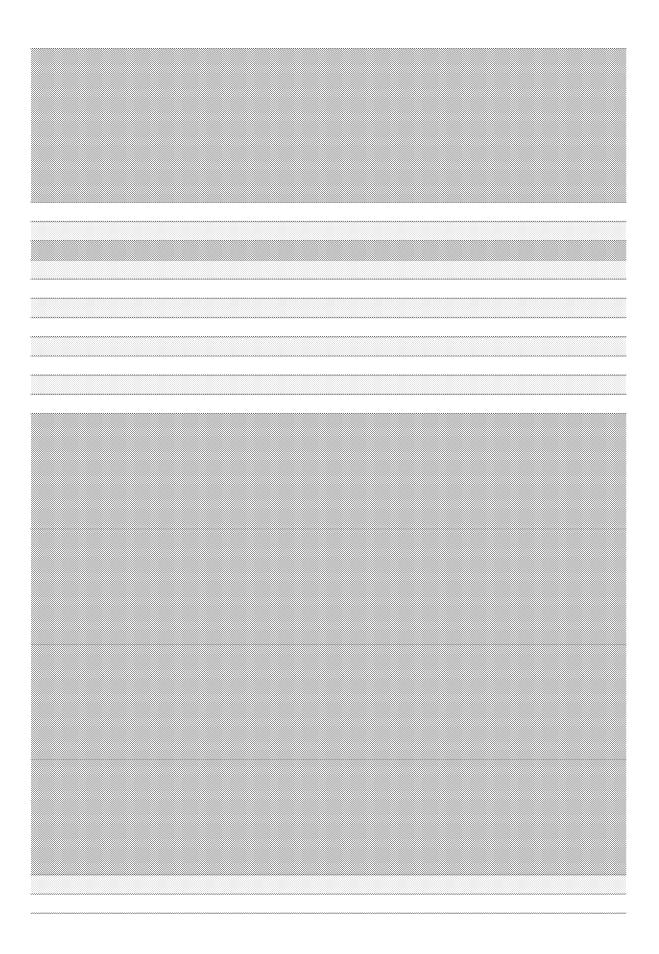
Mouse	Oral-gavage	
Rat	Oral-gavage	
Rat	Oral-gavage	
Rat	Oral-diet	
Rat	Oral-diet	
 Rat	Oral-diet	
Rat	Oral-diet	

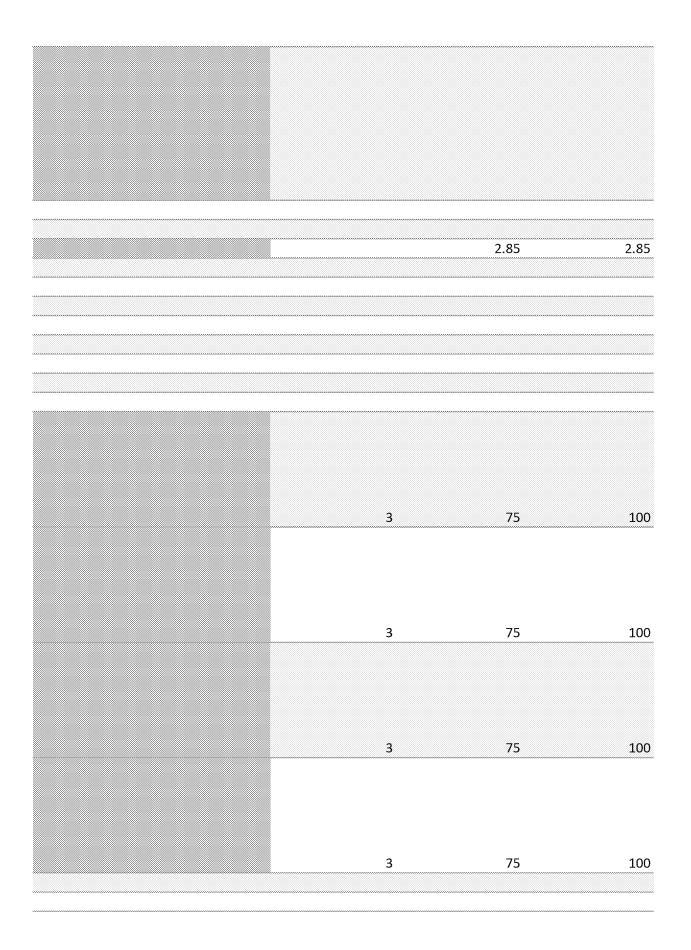
Rat	Oral-diet
Rat	Oral-diet

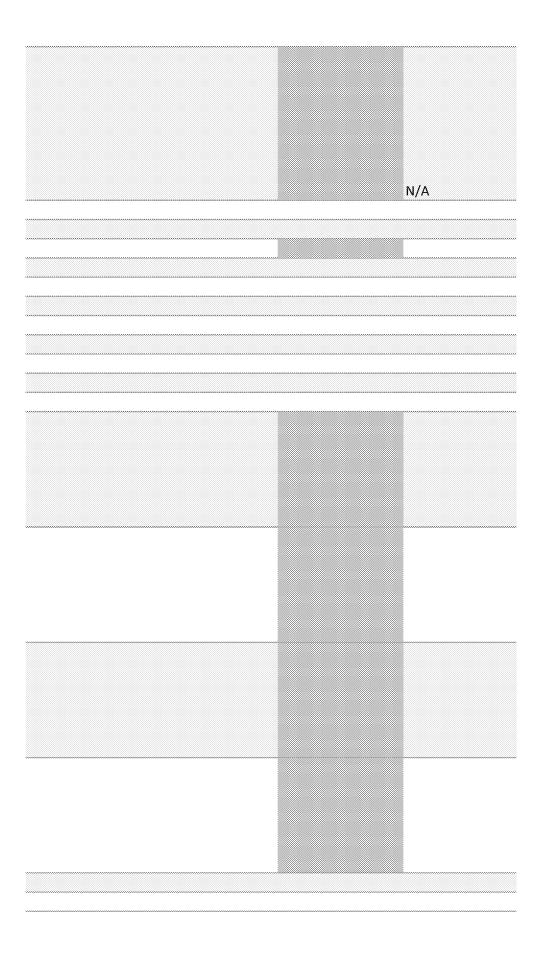
Rat	Oral-diet
Rat	Injection-ip
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	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21 21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

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22	0.9	0.094	0.154	10	21
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22	0.9	0.094	0.154	10	21



Lee et al.	2012	1293792
Lee et al.	2012	1293792
Poon et al.	2011	1293944
Poon et al.	2011	1293944
Poon et al.	2011	1293944
Poon et al.	2011	1293944
Poon et al.	2011	1293944
Cai et al.	2011	1294114
Cai et al.	2011	1294114
Cai et al.	2011	1294114
Cai et al.	2011	1294114
Martin and Klaassen	2010	1294814
Martin and Klaassen	2010	1294814
Lilienthal et al.	2006	1298501
Lilienthal et al.	2006	1298501
Lilienthal et al.	2006	1298501

locomotor activity			

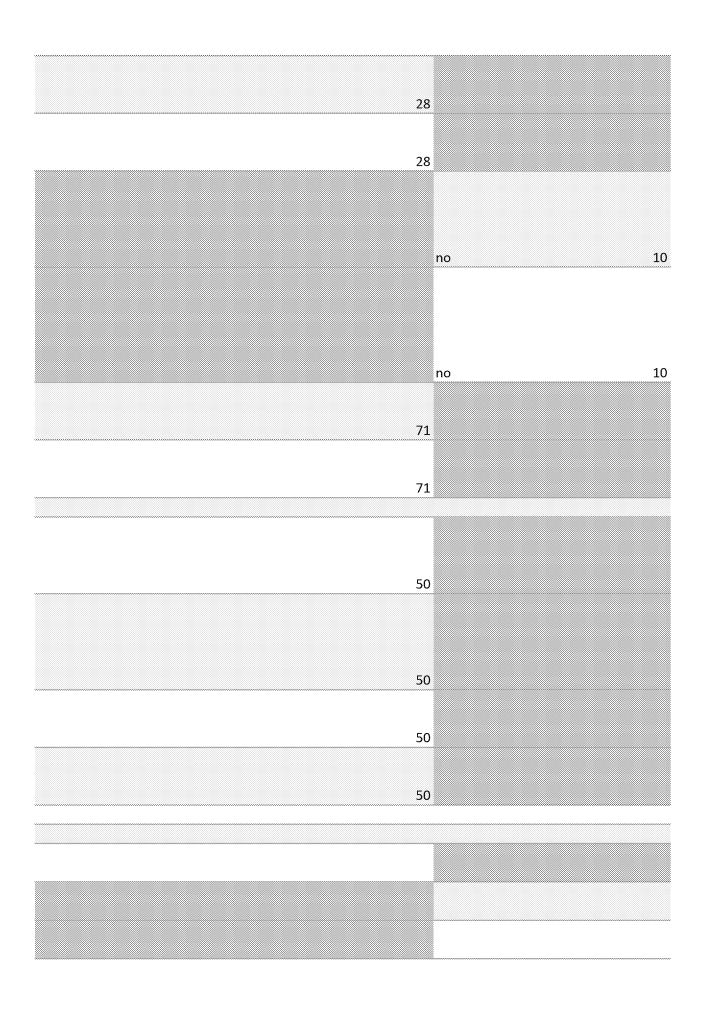
striatal dopamine levels			
brain weight			
DPOAE amplitudes			
DI OAL ampirtudes		 	
litter size			
dam gestational and lactational weight gain			
litter size			
dam gestational and lactational weight gain			
liver weight of F0 and F1 animals			
testis histopathology			
testis weight		 	
serum estradiol, testosterone		 	
epididymal sperm counts, sperm mortality, speri	m abnormality		
P450 activityliver weight			
P450 activityliver weight			
brain weight (F0)			
brain weight (F1)			
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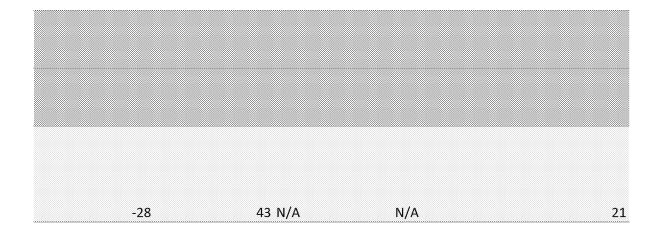
A setting to the set of the set o	Name of the
Activity level	Nervous System
Neurotransmitter levels	Nervous System
Brain-histological, structural, morphological	Nervous System
Sensory function	Nervous System
Maternal weight gain	Reproductive
Pregnancy/conception rate	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Sperm/semen parameters	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological	Nervous System
Emotional state/affective behavior	Nervous System

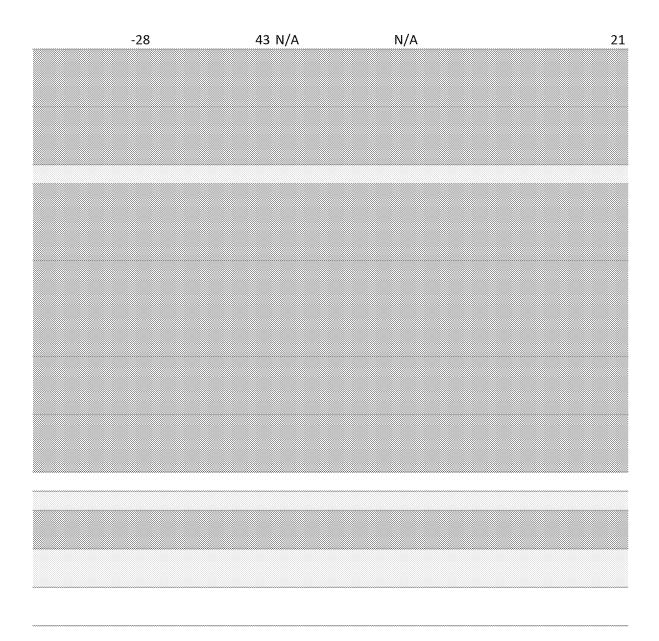
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Mouse	Oral-cookie
Mouse	Oral-cookie
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Rat	Oral-cookie
Rat	Oral-cookie
Rat Rat	Oral-cookie Oral-cookie
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse Rat Rat	Oral-gavage Oral-gavage Oral-gavage
Rat	Injection-sc
Rat	Injection-sc Injection-sc

Primary	 	 63
Primary		63
Secondary		
Secondary		
Primary		67
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Primary		21
Primary Secondary		
Secondary		



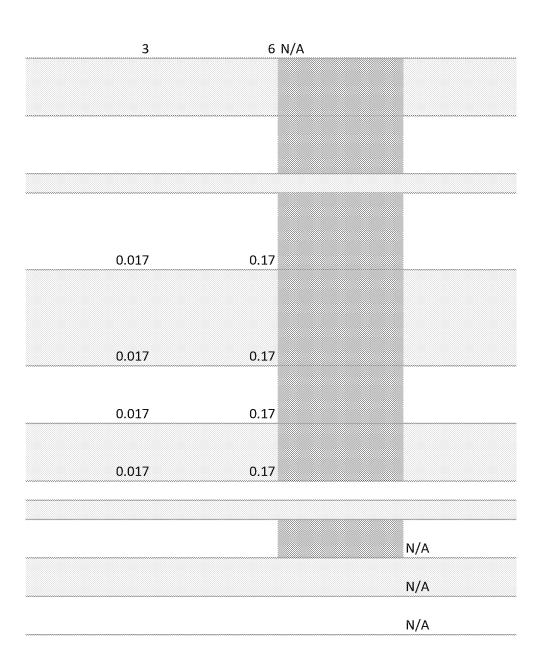




		2	6	25
		2	6	25
43	2	2	3	6

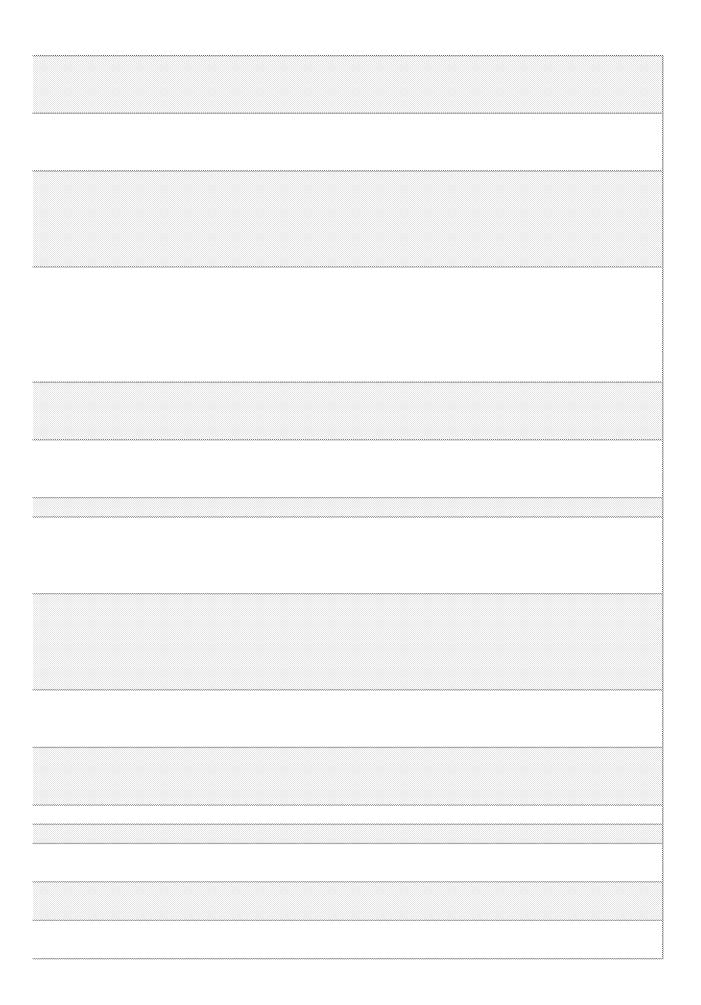
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N/A		6
N/A		6
	3	6 N/A



Male mice (8 wk old at ar ambulatory activity.	rival) were acclimated for 1 wk prior to dosing for 4 wk. Alterations in vertical, horizontal and
Male mice (8 wk old at ar	rival) were acclimated for 1 wk prior to dosing for 4 wk. Increased striatal DA levels.
	before breeding and throughout gestation and lactation (until weaning PND 21). Brain weights 21 and decreases were observed at 6 mg/kg. On PND 2, litters were culled to 10 pups; use
	before breeding and throughout gestation and lactation (until weaning PND 21). DPOAE en at approximately PND 100, and decreases were observed at 6 mg/kg. On PND 2, litters were fault.
-	sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on degenerative rted qualitatively by authors in text).
alterations in testis (repo	
alterations in testis (repo	rted qualitatively by authors in text). sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased
Male weanlings were dos relative testis weight (Tal Male weanlings were dos estradiol (Figure 5).	rted qualitatively by authors in text). sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased ole 1); note absolute testis weight was also decreased, but not significantly. sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on effects on sperm
Male weanlings were dos relative testis weight (Tal Male weanlings were dos estradiol (Figure 5). Male weanlings were dos counts, mortality, and ab	rted qualitatively by authors in text). sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased ole 1); note absolute testis weight was also decreased, but not significantly. sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on effects on sperm
Male weanlings were dos relative testis weight (Tal Male weanlings were dos estradiol (Figure 5). Male weanlings were dos counts, mortality, and ab	rted qualitatively by authors in text). sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased ole 1); note absolute testis weight was also decreased, but not significantly. sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on decreased sed with 0, 5, 50, or 500 ug/kg-day every 3 days for 50 days. LOAEL is based on effects on spermormality (Table 1).

18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18 22 22	0.9 0.9 0.9	0.229 0.094 0.094	0.264 0.154 0.154	6 10 10	21 21 21
22	0.9	0.094	0.154 0.154	10 10	21 21
22	0.9	0.094	0.154	10	21



Lilienthal et al.	2006	1298501
Lilienthal et al.	2006	1298501
Lilienthal et al.	2006	1298501
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Lilienthal et al.	2006	1298501
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ovarian follicle number					
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puberty onset, female			 		
puberty onset, male					
serum estradiol, testosterone (F0)			 		
serum estradiol, testosterone (F1)					
<u> </u>					20000
serum estradiol, testosterone (F1)					
liver weight					
liver weight, liver weight per 100g body we			 		******
liver weight, liver weight per 100g body we	eightliver v	itamin A	 		
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litter size, resorptions, number of dead fet	ucoc				
ntter size, resorptions, number of dead ret	uses				
pup weight					
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open field test					2000

Reproductive
Reproductive
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Hepatobiliary
Hepatobiliary
Developmental
Developmental
Developmental
Nervous System
Nervous System
Nervous System

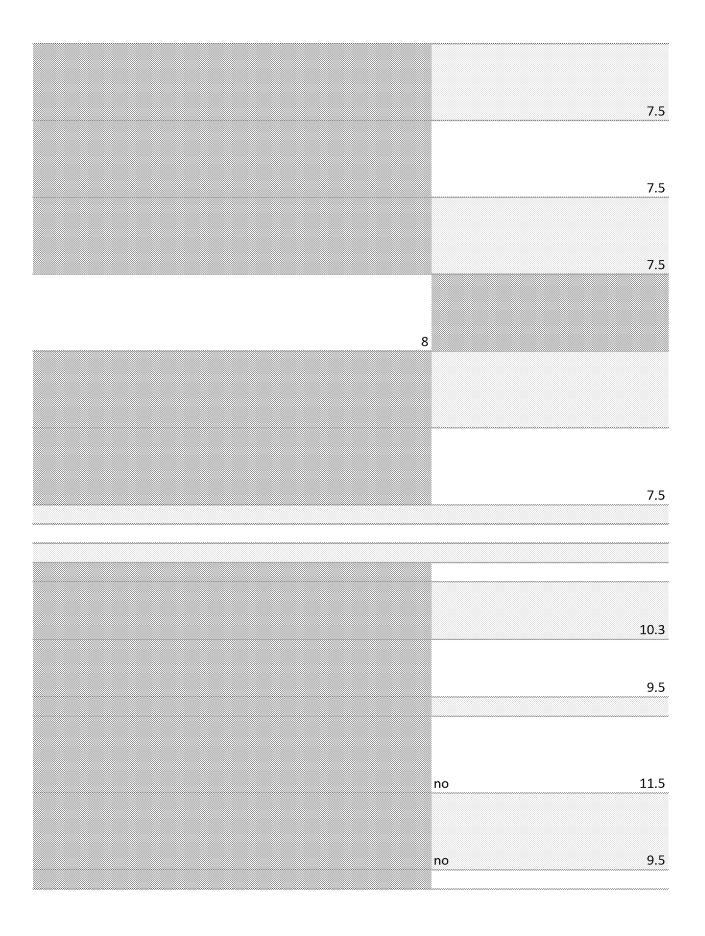
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 Rat	Injection-sc
 Rat	Injection-sc
Rat	Injection-sc
Rat	Injection-sc
 Rat	Injection-sc
Rat	Injection-sc
Rat	Injection-sc
Rat Rat	Injection-sc Oral-diet
Rat Rat Rat	Injection-sc Oral-diet Oral-diet
Rat Rat	Injection-sc Oral-diet Oral-diet Oral-gavage
Rat Rat Rat Rat	Injection-sc Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage
Rat Rat Rat Rat Rat	Injection-sc Oral-diet Oral-diet Oral-gavage Oral-gavage
Rat	Injection-sc Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage Oral-gavage Oral-gavage Oral-gavage
Rat Rat Rat Rat Rat Rat Rat	Injection-sc Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage Oral-gavage Oral-gavage

Secondary	
Secondary	
Secondary	

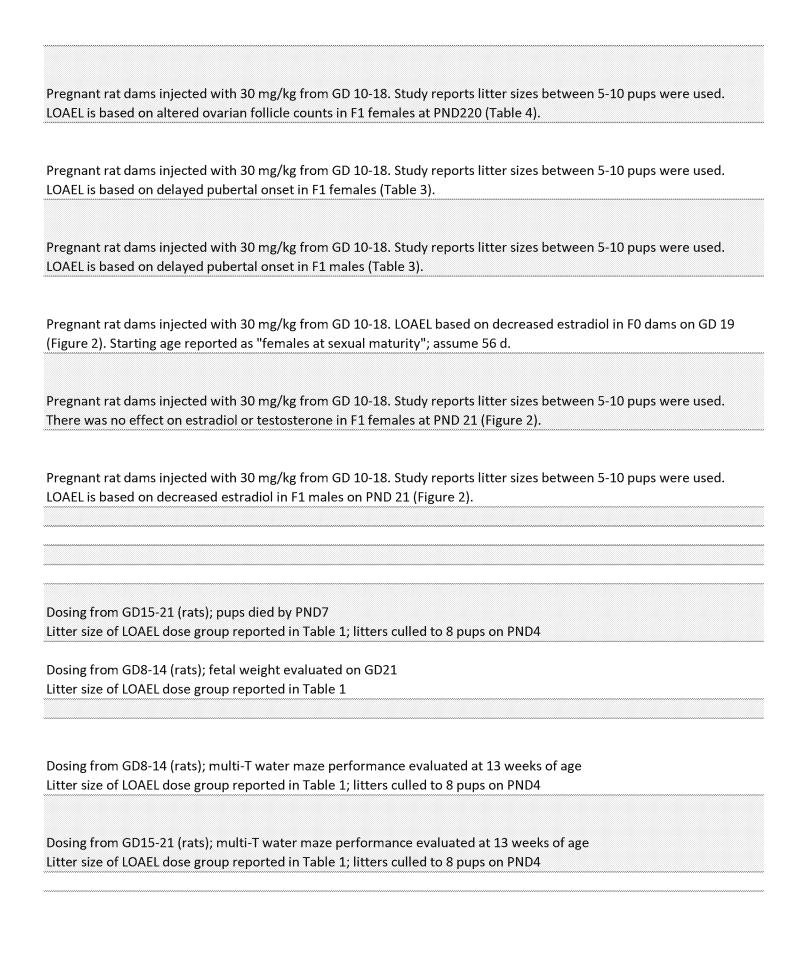
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10	18 N/A	N/A	21
10	18 N/A	N/A	21
10	18 N/A	N/A	21
10	18 N/A	N/A	21
10	18 N/A 21 N/A	N/A N/A	7
			7
15	21 N/A	N/A	

	2	30	30
	2	30	30
	2	30	30
		30	30
	2	30	30
	2	30	30
	2	30	30
	2	30	30
	2	30	30
	2	20	100
	2	20	100
	2	20	100
113 2	2	20	100
113 2	2	20	100
113 2	2 2	20	100

N/A		30 N/A	
N/A		30 N/A	
N/A		30 N/A	
N/A		30	
			N/A
N/A		30 N/A	
			N/A
	20	100 N/A	
	20	100 N/A	N/A
N/A		20 N/A	
N/A		20 N/A	N/A



 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21
22	0.9	0.094	0.154	10	21
 	0.5	0.031	0.131	10	£ ±
22	0.9	0.094	0.154	10	21
 	0.9	0.094	0.134	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21

Adamata	Cood	
Adequate	Good	Adequate
Adequate	Good	Adequate
Adequate Adequate	Good Good	Adequate Adequate
Adequate Adequate Adequate	Good Good Good	Adequate Adequate Adequate

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number of viable fetuses (GD21) or viable pups (after delivery) maternal weight gain

number of viable fetuses (GD21) or viable pups (after delivery) maternal weight gain

protein microsomal fractionsliver weight

protein microsomal fractionsliver weight

liver microsomal enzymesliver weighthepatic vitamin A, hepatic vitamin E

liver microsomal enzymesliver weighthepatic vitamin A, hepatic vitamin E

liver microsomal enzymesliver weighthepatic vitamin A, hepatic vitamin E

maternal body weights during gestation and lactation

liver microsomal protein, DMAP N-demethylase, benzo[a]pyrene hydroxylase, aldrin epoxidase, cytochrome P-450, EROD liver microsomal protein, DMAP N-demethylase, benzo[a]pyrene hydroxylase, aldrin epoxidase, cytochrome P-450, EROD liver microsomal protein, DMAP N-demethylase, benzo[a]pyrene hydroxylase, aldrin epoxidase, cytochrome P-450, EROD relative liver weight (pups)

induction of hepatic enzyme activity CYP1A (ethoxyresorufin O-dealkylation and methoxyresorufin O-dealkylation), CYP2I induction of hepatic enzyme activity CYP1A (ethoxyresorufin O-dealkylation and methoxyresorufin O-dealkylation), CYP2I enzyme activity (ETR O-dealkylation, MTR O-dealkylation, PTR O-dealkylation, BZR O-dealkylation), induction of microson enzyme activity (ETR O-dealkylation, MTR O-dealkylation, PTR O-dealkylation, BZR O-dealkylation), induction of microson enzyme activity (ETR O-dealkylation, MTR O-dealkylation, PTR O-dealkylation, BZR O-dealkylation), induction of microson

DNA synthesis via BrdU incorporation

UDP-GT induction

cholesterol

liver enzyme activitieshistologyliver weight

liver enzyme activitieshistologyliver weight

liver enzyme activitieshistologyliver weight

pup weight

open field

forelimb grip strength, water escape pole climbing, negative geotaxis

Morris water maze

elevated plus maze, light dark box, tail suspension, open field

maternal behavior

maternal weight gain

activities of hepatic enzymes (Cytochrome P-450; Cytochrome b; NADPH-cytochrome c. reducatse; Aminopyrine N-deme activities of hepatic enzymes (Cytochrome P-450; Cytochrome b; NADPH-cytochrome c. reducatse; Aminopyrine N-deme

Maternal weight gain	Reproductive
Pregnancy/conception rate	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Maternal weight gain	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Cell Proliferation	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Weight and size (early life)	Developmental
Activity level	Nervous System
Motor function	Nervous System
Cognitive function	Nervous System
Emotional state/affective behavior	Nervous System
Social behavior/development	Nervous System
Maternal weight gain	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

Kanechlor 300Kanechlor 500

Kanechlor 300Kanechlor 500

Phenochlor DP6		 	 	
Phenochlor DP6				
PCBs				
PCBs		 	 	
PCBs				

Aroclor 1254

Breast milk mixture:	PCBs 28,	52, 66, 101	L, 105, 118	3, 128, 138	, 146, 156	, 170, 180	, 183, 187	
Breast milk mixture:	PCBs 28,	52, 66, 101	l, 105, 118	3, 128, 138	, 146, 156	, 170, 180	, 183, 187	
Breast milk mixture:	PCBs 28,	52, 66, 101	L, 105, 118	3, <mark>128, 13</mark> 8	, 146, 156	, 170, 180	, 183, 187	
Aroclor 1254								
Aroclor 1254								
Aroclor 1254								
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Aroclor 1254								
Aroclor 1254								

Aroclor 1254

Aroclor 1254	
Clophen A50	
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Clophen A60	
Clophen A60	

Mixture: PCBs 28, 52, 101, 138, 153, 180 Mixture: PCBs 28, 52, 101, 138, 153, 180

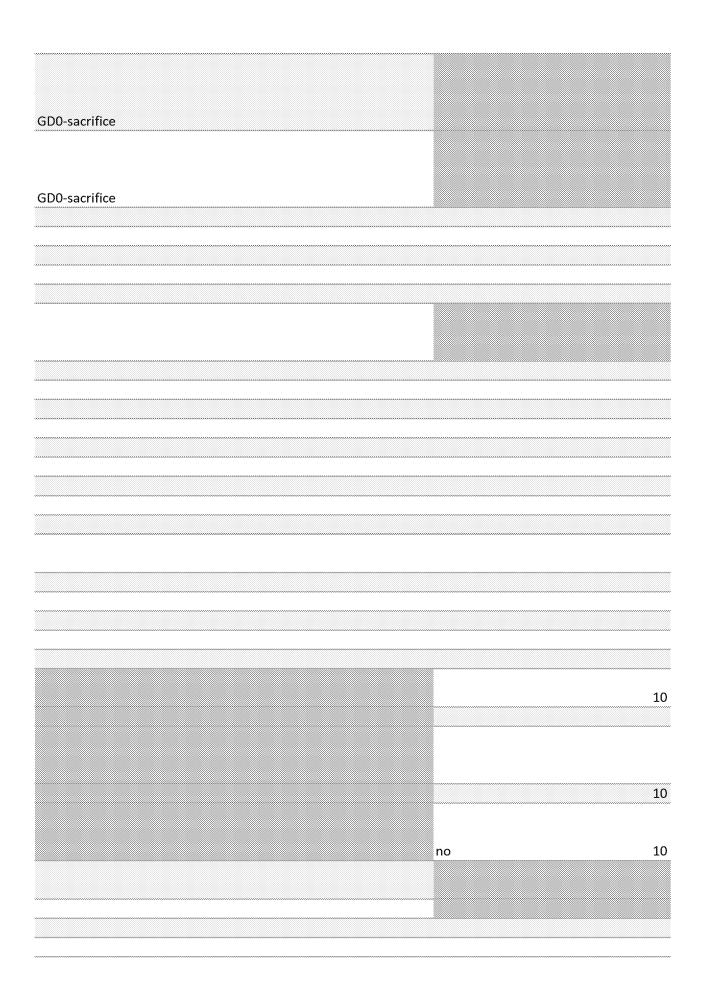
Mixture: PCBs 28, 52, 101, 138, 153, 180 Mixture: PCBs 28, 52, 101, 138, 153, 180

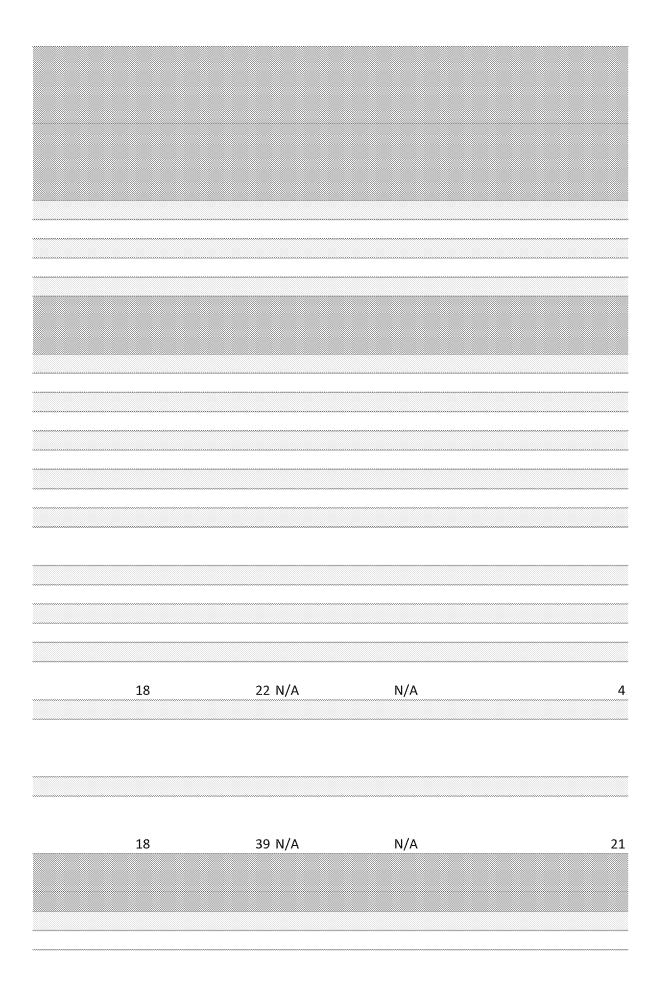
Mixture: PCBs 28, 52, 101, 138, 153, 180

Mixture: PCBs 28, 52, 101, 138, 153, 180
Mixture: PCBs 28, 52, 101, 138, 153, 180
Kanechlor 500
Kanechlor 500

Rat	Oral-diet
 Ndt	Oral-cilet
Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Dot	Ovel serves
Rat Rat	Oral-gavage
Rat	Injection-ip Injection-ip
 Rat	Injection-ip
 Rat	Oral-diet
Rat	Oral-diet
Mouse	
 Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Mouse	Oral-gavage
Mouse	Oral-gavage
	0 0
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse	Oral gayage
Mouse	Oral gavege
Rat	Oral-gavage Oral-diet
Rat	Oral-diet Oral-diet
 nat	Oral MCt

Primary	 	
Primary		
Primary		
Secondary Secondary		
Secondary Secondary		
Secondary		
Secondary		
Primary		
Primary		





	3	20	500
	3	20	500
	2	0.000001	0.0001
58 4	2	0.000001	0.0001

	N/A
0.00001 0.0003	L N/A
	N/A
N/A 0.000003	N/A
.,,.	
	N/A N/A
	IV/A

Rat dams dosed from GD 6 - PND 21 to 0, 1, o during gestation or lactation (data not shown		s there was no effect on	maternal body weights
Dams exposed PND0-21; pup weight altered	by PND4		
Litters culled to 10 on PND0			
Litters culled to 10 on PND0 Dams exposed PND0-21; elevated plus maze Litters culled to 10 on PND0	behavior altered at PND40)	

	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2
	22	0.9	0.094	0.154	10	2:
	22	0.9	0.094	0.154	10	2
			U.UJT	0.137	10	۷.
	22	0.9	0.094	0.154	10	
CHECK		0.9	0.094	0.154	10	2. 2:
CHECK	22	0.9 0.9 CHECK	0.094 CHECK	0.154 CHECK	10 CHECK	2
CHECK	22	0.9 0.9 CHECK 0.9	0.094 CHECK 0.094	0.154 CHECK 0.154	10 CHECK 10	2
CHECK	22 22 22	0.9 0.9 CHECK 0.9 0.9	0.094 CHECK 0.094 0.094	0.154 CHECK 0.154 0.154	10 CHECK 10 10	2 2 2
CHECK	22 22 22 22 22	0.9 0.9 CHECK 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094	0.154 CHECK 0.154 0.154 0.154	10 CHECK 10 10	2 2 2 2
CHECK	22 22 22 22 22 22	0.9 0.9 CHECK 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094	0.154 CHECK 0.154 0.154 0.154	10 CHECK 10 10 10	2 2 2 2
CHECK	22 22 22 22 22	0.9 0.9 CHECK 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094	0.154 CHECK 0.154 0.154 0.154	10 CHECK 10 10	2 2 2 2
CHECK	22 22 22 22 22 22	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094	0.154 CHECK 0.154 0.154 0.154	10 CHECK 10 10 10	2 2 2 2 2
CHECK	22 22 22 22 22 22 22	0.9 0.9 CHECK 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094	0.154 CHECK 0.154 0.154 0.154 0.154	10 CHECK 10 10 10 10	2 2 2 2 2
CHECK	22 22 22 22 22 22 22 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.264 0.264	10 CHECK 10 10 10 10 10 6 6	2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.264 0.264	10 CHECK 10 10 10 10 10 6 6	2 2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 22 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.264 0.264	10 CHECK 10 10 10 10 10 6 6	2 2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.264 0.264	10 CHECK 10 10 10 10 10 6 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 18 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229 0.229 0.229 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.154 0.264 0.264 0.264 0.264	10 CHECK 10 10 10 10 10 6 6 6	2 2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 22 18 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.229 0.229 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.154 0.154 0.264 0.264 0.264 0.264 0.264	10 CHECK 10 10 10 10 10 6 6 6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CHECK	22 22 22 22 22 22 18 18 18 18	0.9 0.9 CHECK 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.094 CHECK 0.094 0.094 0.094 0.094 0.094 0.229 0.229 0.229 0.229 0.229	0.154 CHECK 0.154 0.154 0.154 0.154 0.154 0.264 0.264 0.264 0.264 0.264	10 CHECK 10 10 10 10 10 6 6 6 6	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
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Adequate Adequate	Good Good	Good Good
Adequate	Good	Good

Bavithra et al.	2012	1402037
Curran et al.	2011	1402199
Curran et al.	2011	1402199

Curran et al.	2011	1402199
Curran et al.	2011	1402199

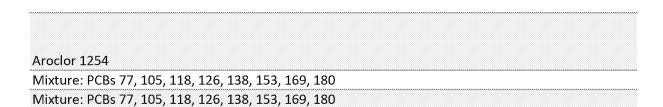
Curran et al. 2011 1402199

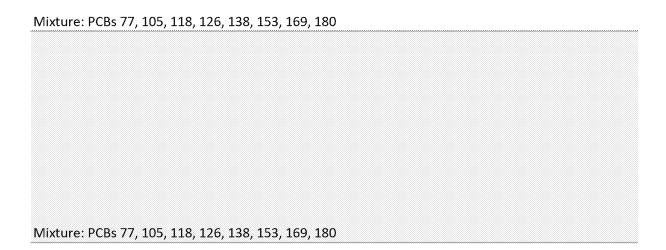
cerebellar histopathology pup body weight corticosterone open field activity long-term potentiation, brain histopathology novel object recognition, Morris water maze								
open field activity long-term potentiation, brain histopathology	cerebella	r histopath	ology			 	 	
open field activity long-term potentiation, brain histopathology	pup body	weight				 	 	
long-term potentiation, brain histopathology	COLUCOSC	one						
long-term potentiation, brain histopathology								
long-term potentiation, brain histopathology								
long-term potentiation, brain histopathology								
long-term potentiation, brain histopathology								
long-term potentiation, brain histopathology								
long-term potentiation, brain histopathology								
	open field	dactivity					 	
novel object recognition, Morris water maze	long-term	n potentiat	ion, brain hi	stopatholog	ξγ	 	 	
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
novel object recognition, Morris water maze								
	novel obj	ect recogn	ition, Morris	water maz	e	 	 	

Brain-histological, structural, morphological	Nervous System
Weight and size (early life)	Developmental
HPA hormones	Endocrine

Activity level	Nervous System	
Brain-histological, structural, morphological	Nervous System	

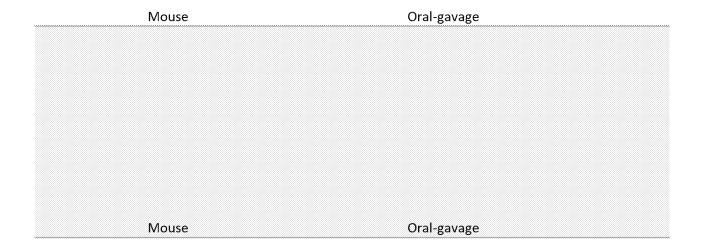
Cognitive function Nervous System





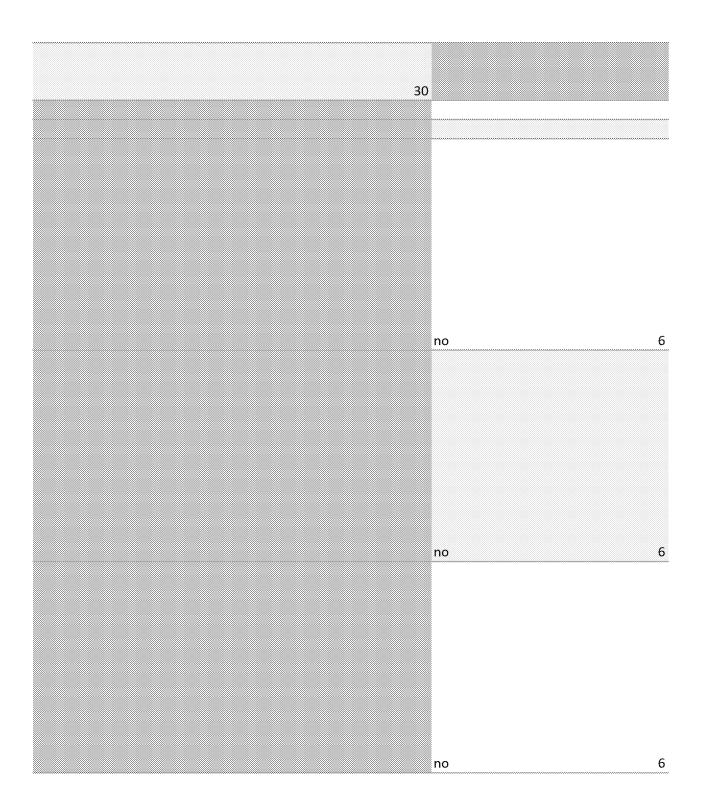
Mixture: PCBs 77, 105, 118, 126, 138, 153, 169, 180

Rat	Injection-ip
Mouse	Oral-gavage
Mouse	Oral-gavage

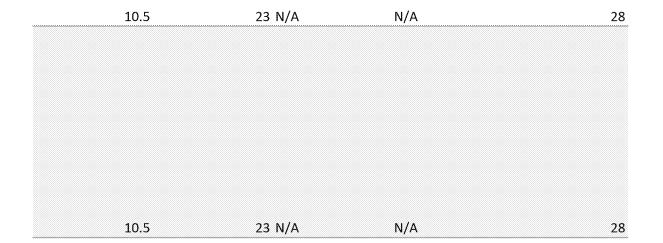


Mouse Oral-gavage

Primary Secondary Secondary	NR (180-200 g males)
Secondary	
Secondary	
Secondary	

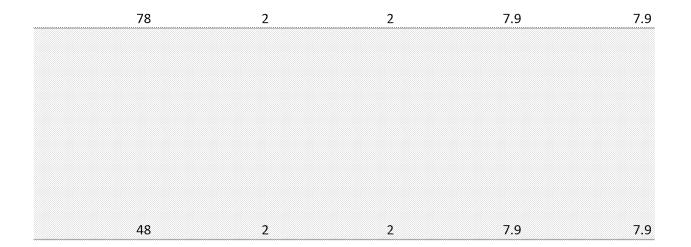






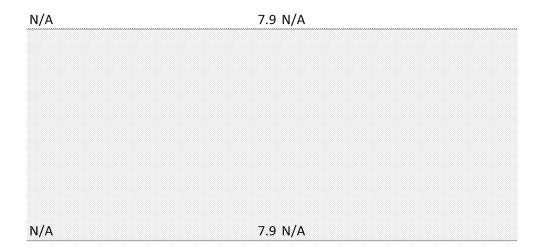
10.5 23 N/A N/A 28





92 2 2 7.9 7.9

N/A 2	
	N/A
	N/A



N/A 7.9 N/A

Adult male wistar rats (180-200 g) dosed for 30 d. Qualitative images shown in Figure 4 of PCB-induced cerebellar damage.

Dams exposed GD10.5 and PND5; open field activity altered at PND60

Dose calculated from information provided in Table S1: PCBs 105, 118, 138, 153, and 180 = 10 mg/kg/dose each (total 50 mg/kg/dose for these 5 congeners); PCB 77 = 5mg/kg/dose; PCB 126 = 0.025 mg/kg/dose; PCB 169 = 0.25 mg/kg/dose (55.275 mg/kg/dose total PCBs). Two doses were administered, 14 days apart (GD10.5 and PND5).

Adjusted for continuous dosing, dose = (55.275 mg/kg/dose*2 doses)/14 days = 7.9 mg/kg-day

Litter size NR; use default

Dams exposed GD10.5 and PND5; long-term potentiation altered at PND30-35

Dose calculated from information provided in Table S1: PCBs 105, 118, 138, 153, and 180 = 10 mg/kg/dose each (total 50 mg/kg/dose for these 5 congeners); PCB 77 = 5mg/kg/dose; PCB 126 = 0.025 mg/kg/dose; PCB 169 = 0.25 mg/kg/dose (55.275 mg/kg/dose total PCBs). Two doses were administered, 14 days apart (GD10.5 and PND5).

Adjusted for continuous dosing, dose = (55.275 mg/kg/dose*2 doses)/14 days = 7.9 mg/kg-day

Litter size NR; use default

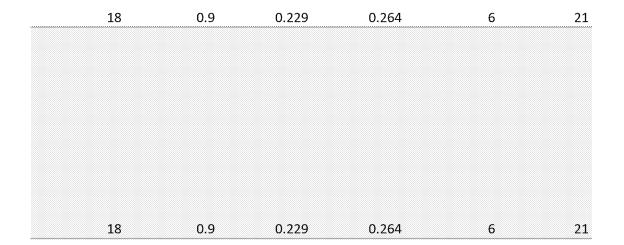
Dams exposed GD10.5 and PND5; Morris water maze performance altered after PND 74

Dose calculated from information provided in Table S1: PCBs 105, 118, 138, 153, and 180 = 10 mg/kg/dose each (total 50 mg/kg/dose for these 5 congeners); PCB 77 = 5mg/kg/dose; PCB 126 = 0.025 mg/kg/dose; PCB 169 = 0.25 mg/kg/dose (55.275 mg/kg/dose total PCBs). Two doses were administered, 14 days apart (GD10.5 and PND5).

Adjusted for continuous dosing, dose = (55.275 mg/kg/dose*2 doses)/14 days = 7.9 mg/kg-day

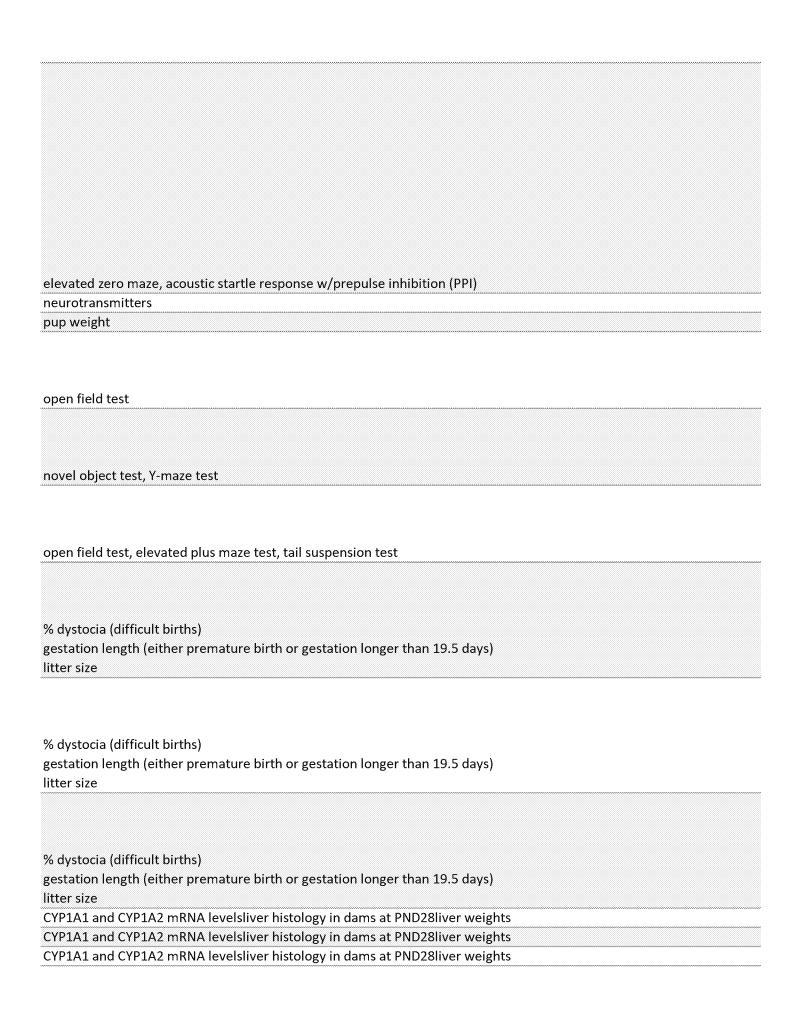
Litter size NR; use default

22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21



Adequate Adequate	Good Good	Adequate Adequate
Adequate	Good	Adequate
Adequate	Good	Adequate
Adequate	Good	Adequate

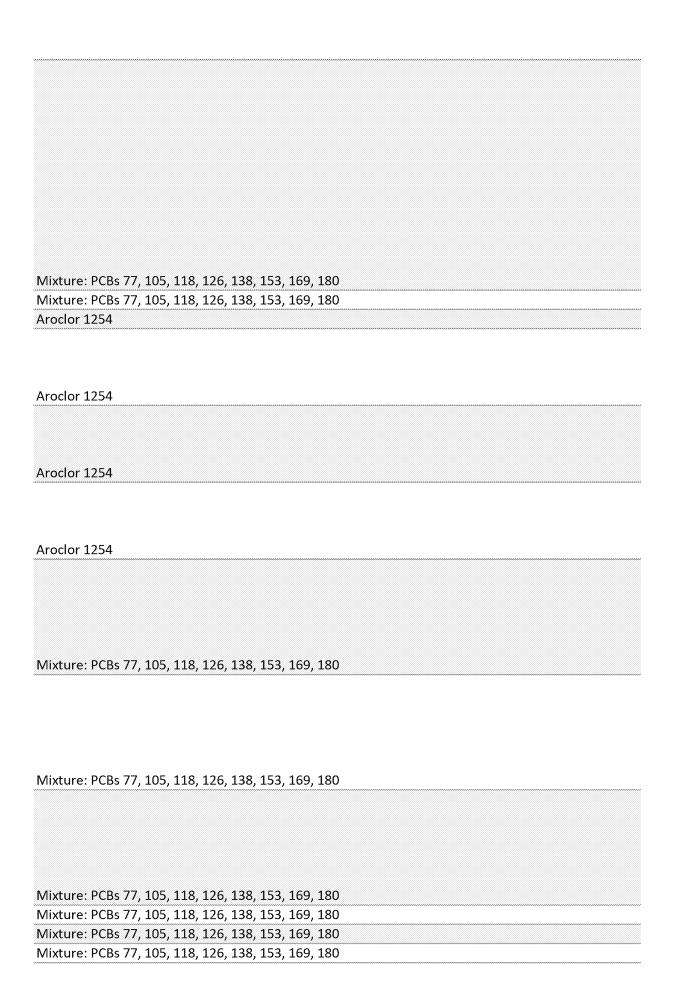
Curran et al.	2011	1402199
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Tian et al.	2011	1402374
Tian et al	2011	1402274
Tian et al.	2011	1402374
Tian et al.	2011	1402374
Tian et al.	2011	1402374
Tian et al. Curran et al.	2011	1402374 1402788
Curran et al.	2011	1402788
Curran et al.	2011	1402788
Curran et al.	2011	1402788
Curran et al. Curran et al. Curran et al.	2011	1402788 1402788 1402788
Curran et al.	2011	1402788



Emotional state/affective behavior	Nervous System
Neurotransmitter levels	Nervous System
Weight and size (early life)	, Developmental
Activity level	Nervous System
Cognitive function	Nervous System
Cognitive function	Net vous system
Emotional state/affective behavior	Nervous System
Dystocia	Reproductive
Gestation length and preterm birth	Reproductive
Pregnancy/conception rate	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Henstemagely	Uanatabilian

Hepatobiliary

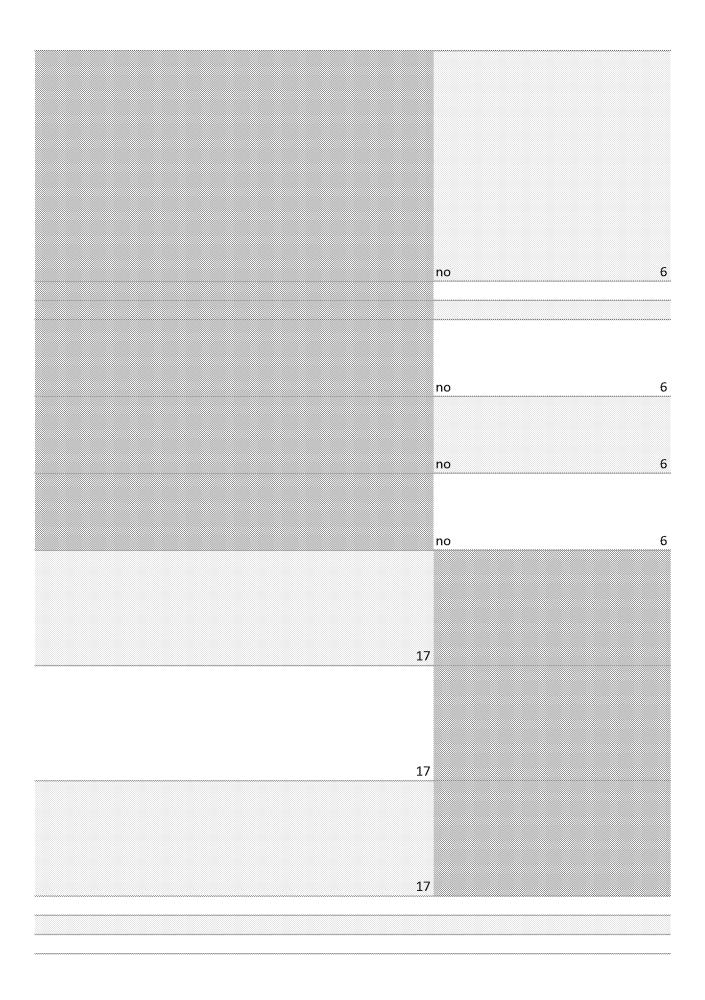
Liver Weight/Hepatomegaly

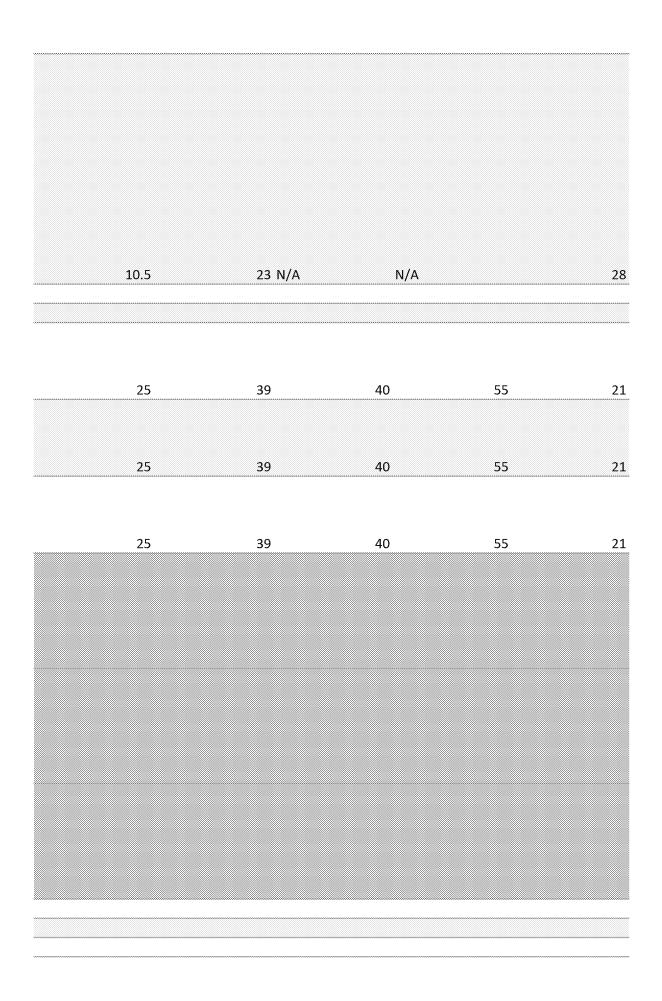


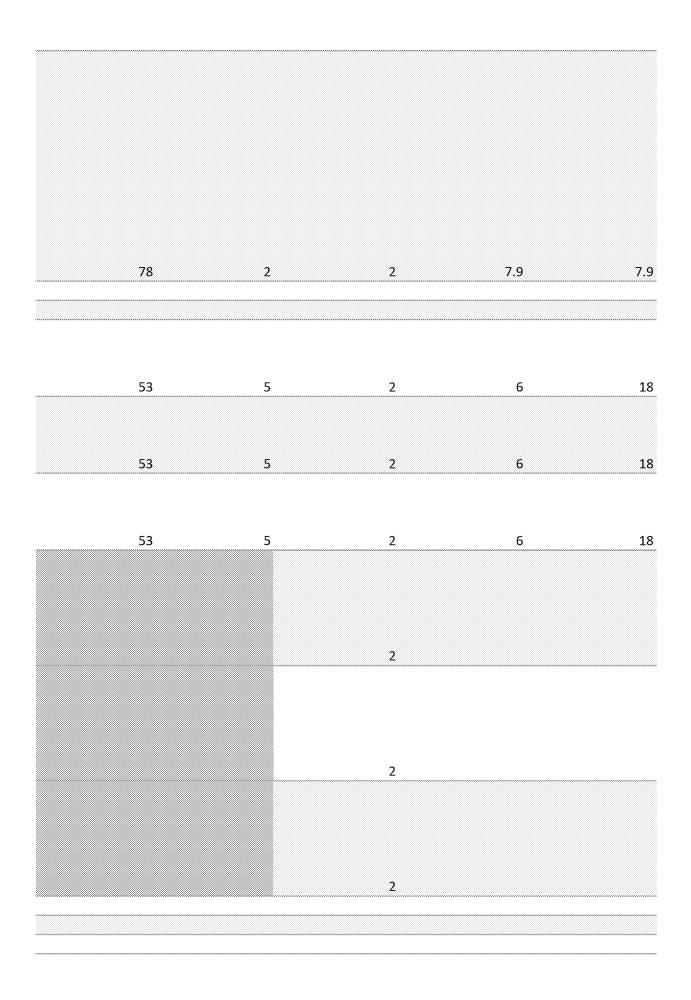
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
		0101 201020
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	NA	01
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral gayage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
***************************************	Mouse	Oral-gavage

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Secondary			
Secondary			
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Secondary			
Primary			

Primary			
Primary			

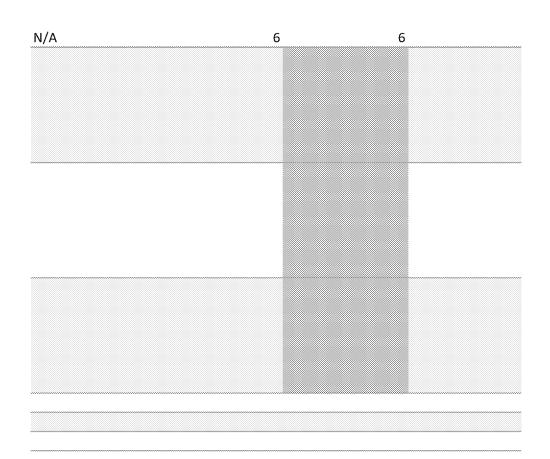


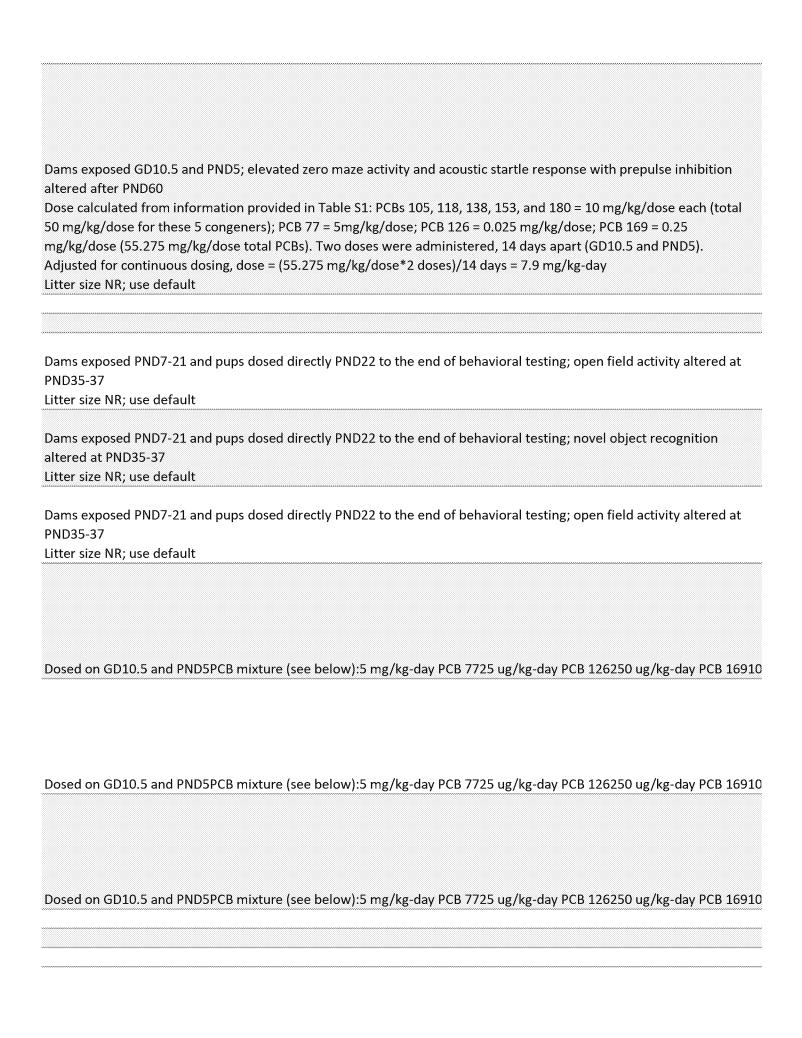




/A	7.9 N/A		
		N/A	
		N/A	

N/A	6	6	
N/A	6	6	





 18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21

	6 1	A.1.
Adequate Adequate	Good Good	Adequate Adequate
Ndequate Ndequate	Adequate	Adequate
Adequate	Adequate	Adequate
Adequate	Adequate	Adequate
Adequate Adequate	Adequate Adequate	Adequate Adequate
dequate		Adequate
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Adequate	Adequate	Adequate
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Adequate	Adequate	Adequate
dequate	Adequate	Adequate
dequate	Adequate	Adequate

Lu et al.	2010	1403045
Lu et al.	2010	1403045
Lu et al.	2010	1403045
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Ateşşahin et al.	2010	1403617
Ateşşahin et al.	2010	1403617
Ateşşahin et al.	2010	1403617
Ateşşahin et al.	2010	1403617
Kato et al.	2010	1403766
Kato et al.	2010	1403766
Aulerich et al.	1973	1404635
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Kimbrough et al.	1973	1404636
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Innami et al.	1974	1404661
Innami et al.	1974	1404661
Innami et al.	1974	1404661
Burse et al.	1974	1404880
Allen et al.	1975	1405015
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Allen et al.	1975	1405015
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Allen et al.	1975	1405015
Allen et al.	1975	1405015
Allen et al.	1975	1405015
Allen et al.	1975	1405015
Bastomsky et al.	1975	1405019
Bastomsky et al.	1975	1405019
Carlson	1975	1405053
Carlson	1975	1405053

histopathologyliver weightserum biochemistry	
histopathologyliver weightserum biochemistry	*************
histopathologyliver weightserum biochemistry	
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testosterone levels	
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sperm abnormalities, epididymal sperm concentration, sperm motility	
sperm abnormalities, epididymal sperm concentration, sperm motility T4-UDPGT activityliver weight	
T4-UDPGT activityliver weight T4-UDPGT activityliver weight	
T4-UDPGT activityliver weight T4-UDPGT activityliver weight gestation length	
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testes histopathology

cholesterolhepatic microsomal enzymes (glucose-6-phosphatase, N-demethylase, aniline hydroxylase, nitroreductase, glucholesterolhepatic microsomal enzymes (glucose-6-phosphatase, N-demethylase, aniline hydroxylase, nitroreductase, glucose-6-phosphatase, nitroreductase,

UDP-glucuronyltransferase activityliver weight

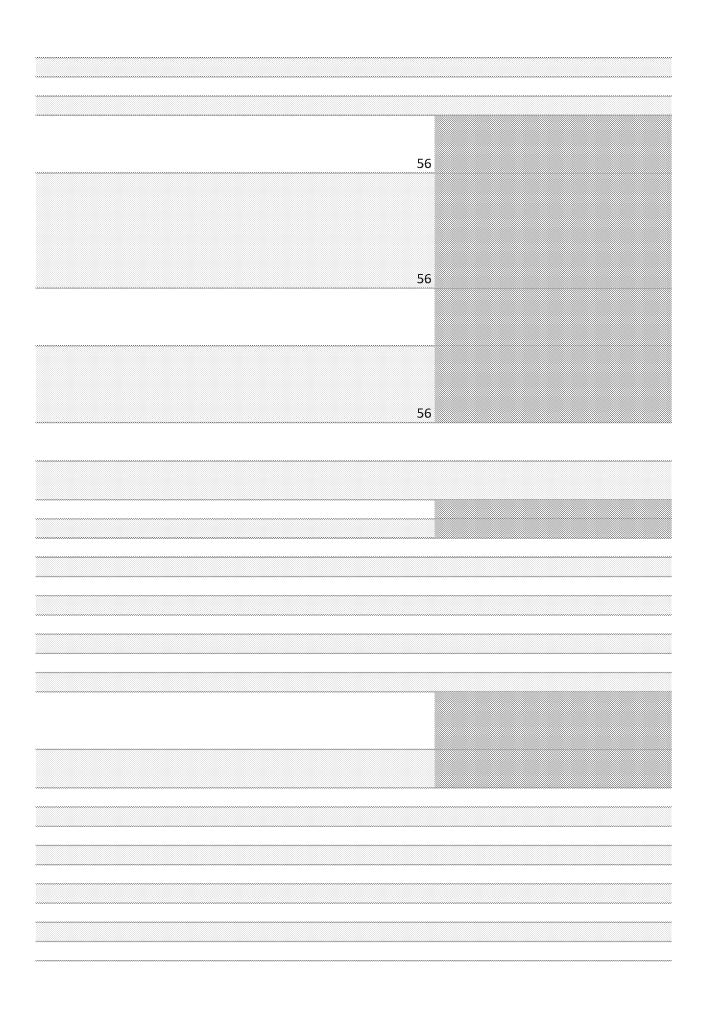
liver microsomal cytochrome c reductase activity and cytochrome P-450 contentliver weight, liver to body weight ratiosel liver microsomal cytochrome c reductase activity and cytochrome P-450 contentliver weight, liver to body weight ratiosel

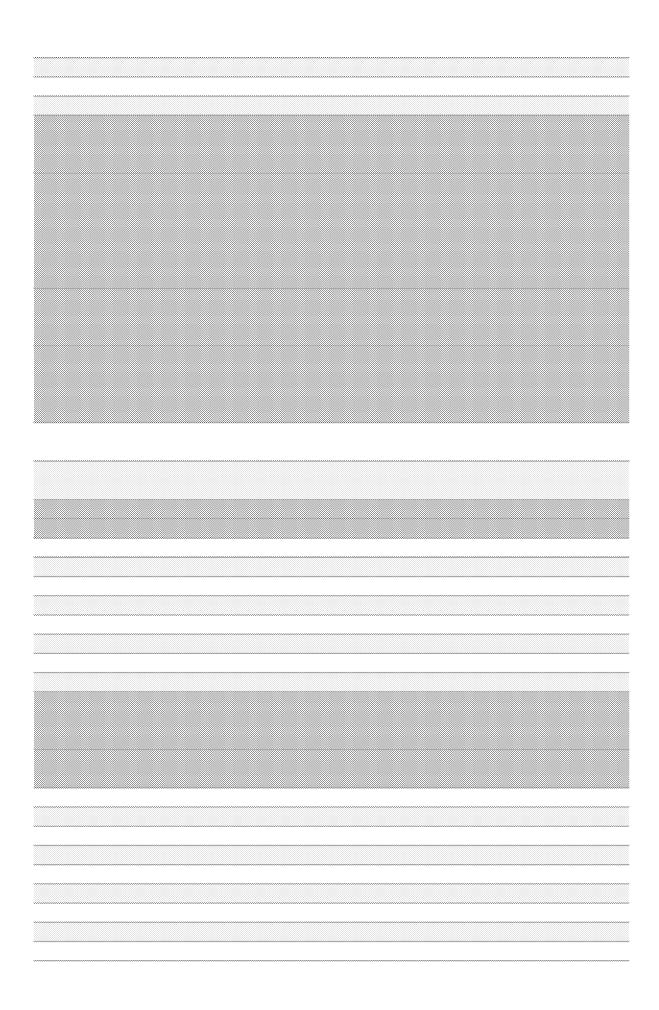
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Scram Bornarkers of Ever Tealth & Function	nepatosmary
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Sperm/semen parameters	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Gestation length and preterm birth	Reproductive
Pregnancy/conception rate	Reproductive
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Histopathology	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Reproductive organ histopathology, male	Reproductive
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

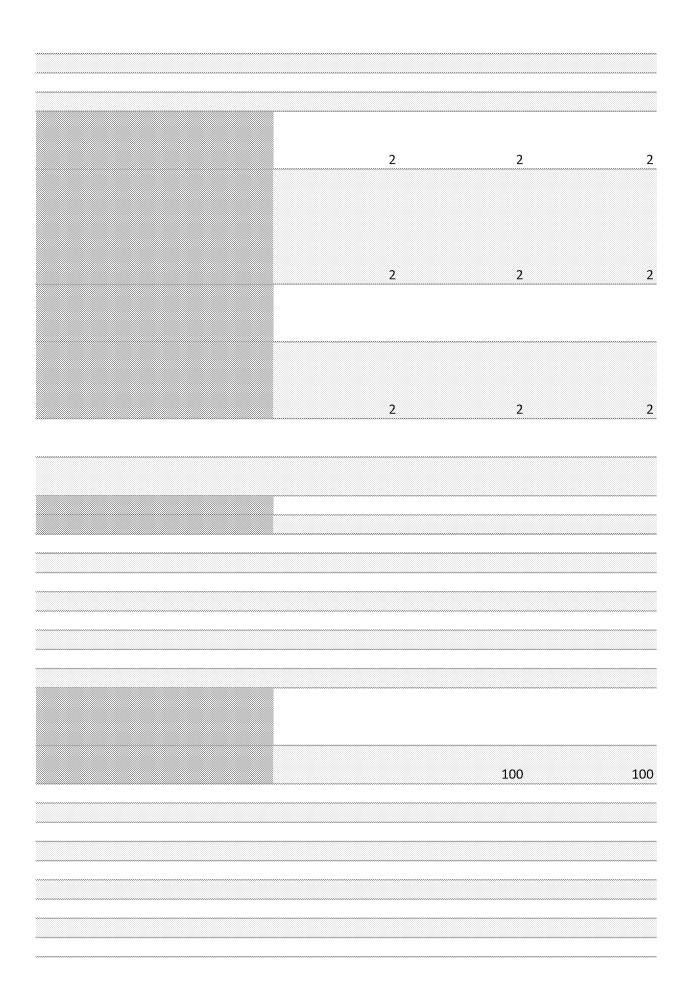
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Mixture: Aroclors 1 Mixture: Aroclors 1 Aroclor 1254Mixtur Aroclor 1254 Aroclor 1254 PCBs PCBs PCBs Aroclor 1016Aroclor Aroclor 1248 Aroclor 1248 Aroclor 1248 Aroclor 1248 Aroclor 1248	242, 1248, 1254 e: Aroclors 1242, e: Aroclors 1242,			
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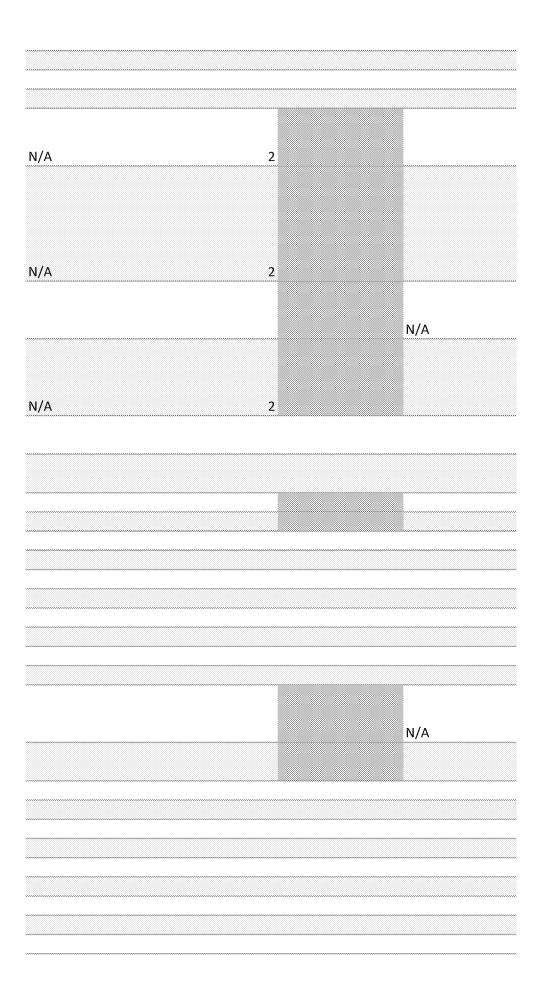
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	Ciui gavage
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Rat	Injection in
Mouse	Injection-ip
Rat	Injection-ip
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Rat	Injection-ip
 Mink	Oral-diet
Mink	Oral-diet
 Mink	Oral-diet
 Mink	Oral-diet
Rat	Oral-diet
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 Rat	Injection-ip

Primary	56
Primary	56
Primary	
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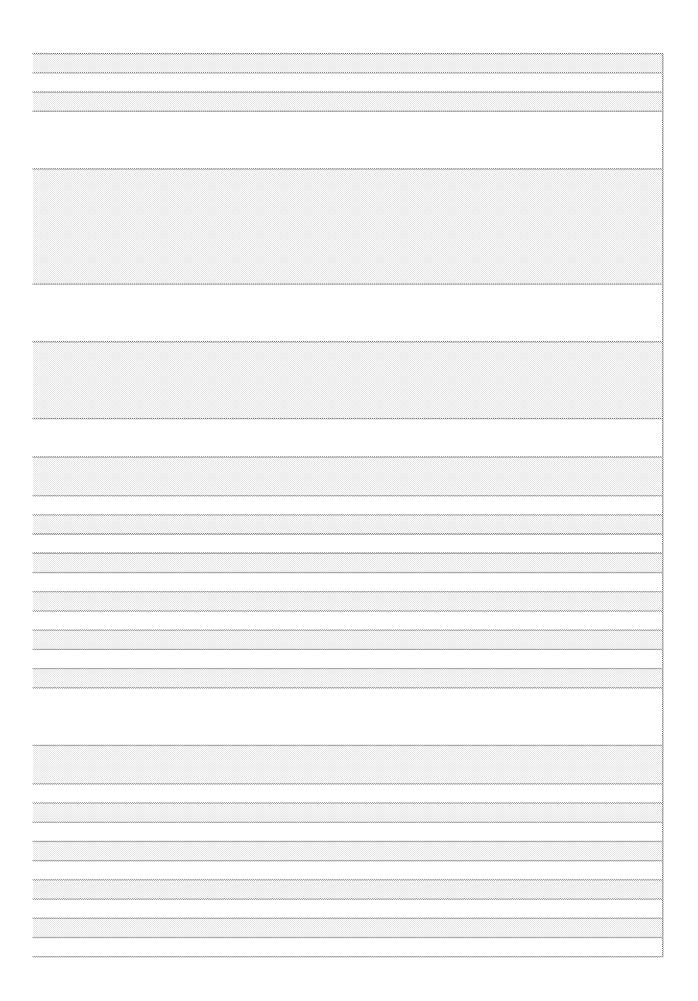






Adult male rats were dosed with 2 mg/kg-day i.p. for 8 weeks. LOAEL is based on incidence of pathological lesions in testis at the end of 8 weeks (Table 4).
Adult male rats were dosed with 2 mg/kg-day i.p. for 8 weeks. LOAEL is based on significant increase in relative testis, epididymis, and seminal vesicle weight at the end of 8 weeks (Table 1). Absolute weights were not significantly changed so this is likely an artifact of decreased body weight.
Adult male rats were dosed with 2 mg/kg-day i.p. for 8 weeks. Testosterone decreased in PCB-treated rats at the end of 8 weeks, but not significantly (Table 3).
Adult male rats were dosed with 2 mg/kg-day i.p. for 8 weeks. LOAEL is based on significant decrease in epididymal sperm concentration and increase in abnormal sperm at the end of 8 weeks (Table 2).
Adult male rats were fed a diet containing 100 ppm Aroclor 1248 for 4 wk. No PCB related effects on brain histopathology reported.

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
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	52	0.9	0.312	0.066	5	56
	52	0.9	0.312	0.066	5	56
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	52	0.9	0.312	0.066	5	56
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	22	0.9	0.094	0.154	10	21



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	Tani et al.	1980	1406111

liver microsomal cytochrome c reductase activity and cytochrome P-450 contentliver weight, liver to body weight ratiose liver weight, relative liver weightliver retinoids

liver weight, relative liver weightliver retinoids

brain histopathology

cholesterolliver lesions, histopathogyliver weightserum activities of glutamic-oxaloacetic transaminase (S-GOT), glutamic cholesterolliver lesions, histopathogyliver weightserum activities of glutamic-oxaloacetic transaminase (S-GOT), glutamic cholesterolliver lesions, histopathogyliver weightserum activities of glutamic-oxaloacetic transaminase (S-GOT), glutamic cholesterolliver lesions, histopathogyliver weightserum activities of glutamic-oxaloacetic transaminase (S-GOT), glutamic liver histopathology (fatty degeneration, mononuclear infiltration, cytoplasmic inclusions), electron microscopy (hypertro liver histopathology (fatty degeneration, mononuclear infiltration, cytoplasmic inclusions), electron microscopy (hypertro liver histopathology (fatty degeneration, mononuclear infiltration, cytoplasmic inclusions), electron microscopy (hypertro

absolute and relative brain weight, gross pathology of brain

testes, seminal vesicles, and prostate weights testicular testosterone levels

testes, seminal vesicles, and prostate weights

testicular testosterone levels

cholesteroltotal liver lipidliver weightclinical chemistry

liver histopathologyliver total lipid, phospholipid, neutral lipid, and components of neutral lipid (monoglycerides, sterols, liver histopathologyliver total lipid, phospholipid, neutral lipid, and components of neutral lipid (monoglycerides, sterols, liver histopathologyliver total lipid, phospholipid, neutral lipid, and components of neutral lipid (monoglycerides, sterols, liver histopathologyliver total lipid, phospholipid, neutral lipid, and components of neutral lipid (monoglycerides, sterols, cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine demethylase, inosine diphosphatase (IDP-cholesterolcytochrome P-450, NADPH cytochrome c reductase, ethylmorphine

microsomal liver protein, liver microsomal fractionsliver fatabsolute and relative liver weights

microsomal liver protein, liver microsomal fractionsliver fatabsolute and relative liver weights

liver aminopyrine-N-demethylase activity, aniline hydroxylase activity, cytochrome P-450 and cytochrome b-5 concentrativity of the concentration of the conc

liver weight

liver cholesterol, plasma cholesterolaminopyrine demethylaseliver total lipidsliver weightliver ascorbic acid

liver cholesterol, plasma cholesterolaminopyrine demethylaseliver total lipidsliver weightliver ascorbic acid

ocialii bioiliai nei oci birei i icaitii a i alietioii	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary

Brain-histological, structural, morphological	Nervous System
Cholesterol	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

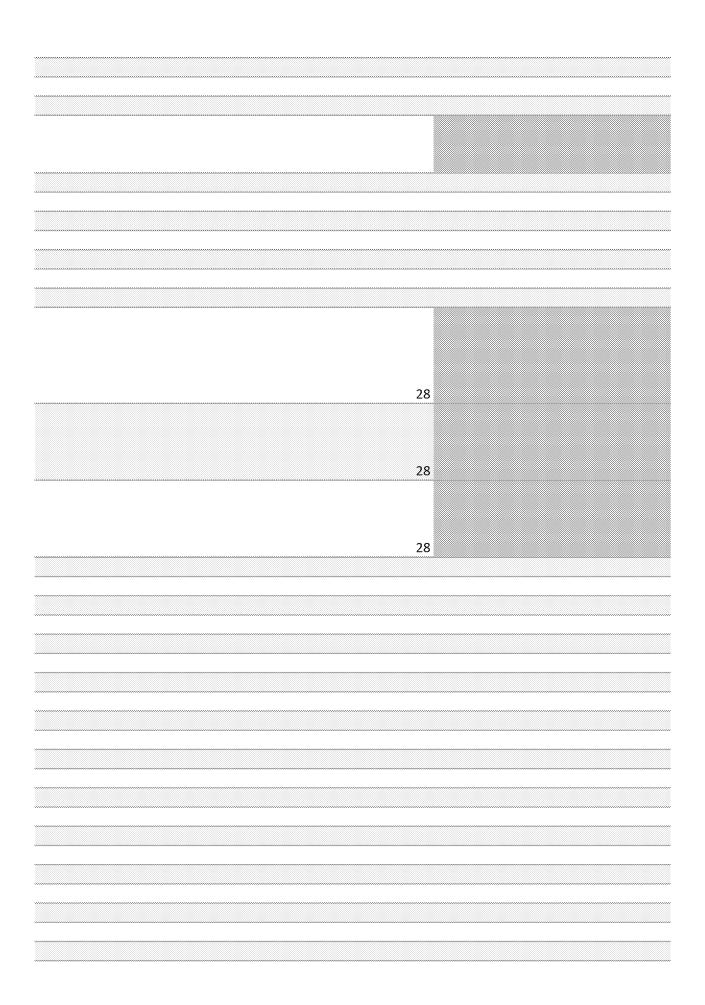
Brain-histological, structural, morphological	Nervous System
Reproductive organ size/weight, male	Reproductive

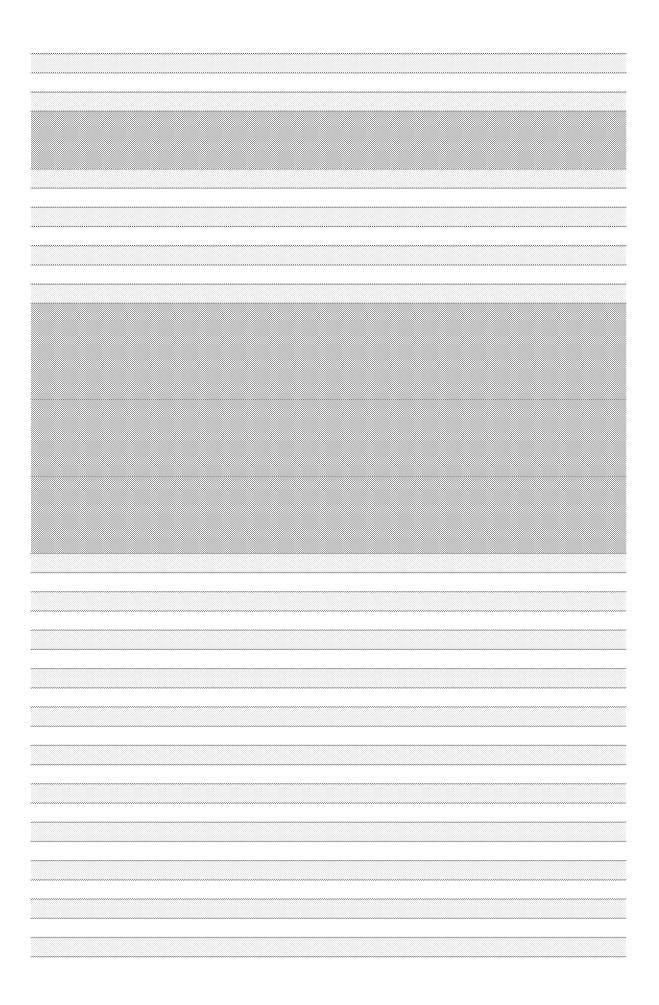
Sex hormone levels, male	Reproductive
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary

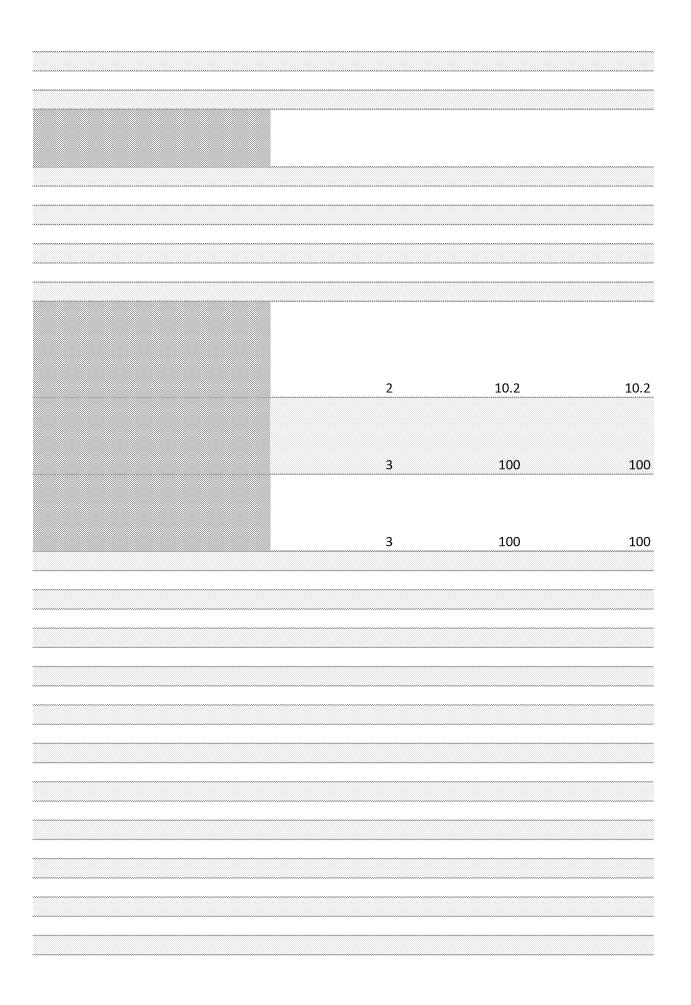
Aroclor 1254	
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PCBs	
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Kanechlor 500	
Kanechlor 500	
Aroclor 1254	
Phenochlor DP6	
Aroclor 1254	
Kanechlor 500	
Aroclor 1248	
Aroclor 1248	

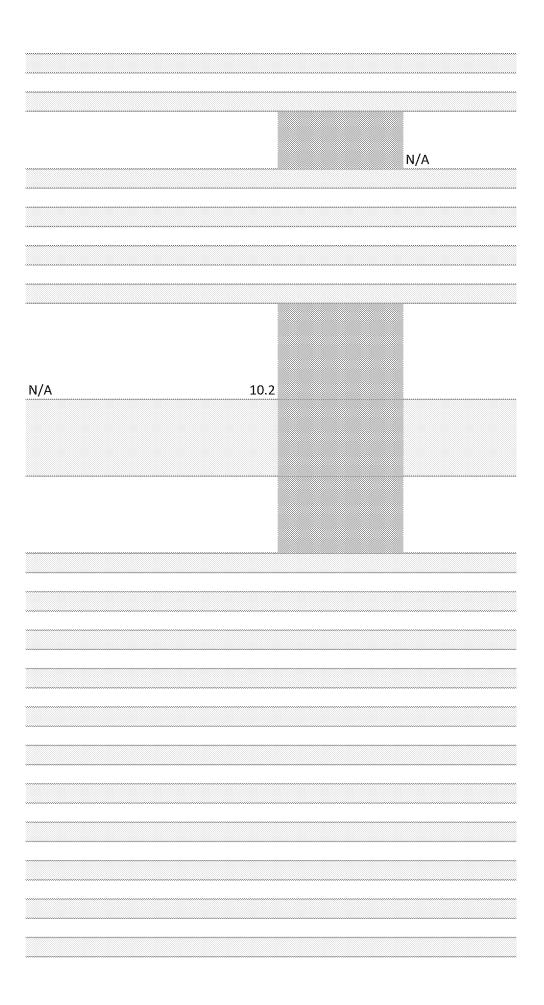
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	Rat	Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage Oral-gavage Injection-ip
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	Rat	Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage Oral-gavage Injection-ip Injection-ip Injection-ip Injection-ip Injection-ip Oral-diet Oral-diet Oral-diet Oral-diet
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	Rat	Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-gavage Oral-gavage Oral-gavage Oral-gavage Injection-ip Injection-ip Injection-ip Injection-ip Injection-ip Oral-diet Oral-diet Oral-diet Oral-diet

Primary			
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Primary	NR (100-130 g ı	male)	
Primary			
Primary			



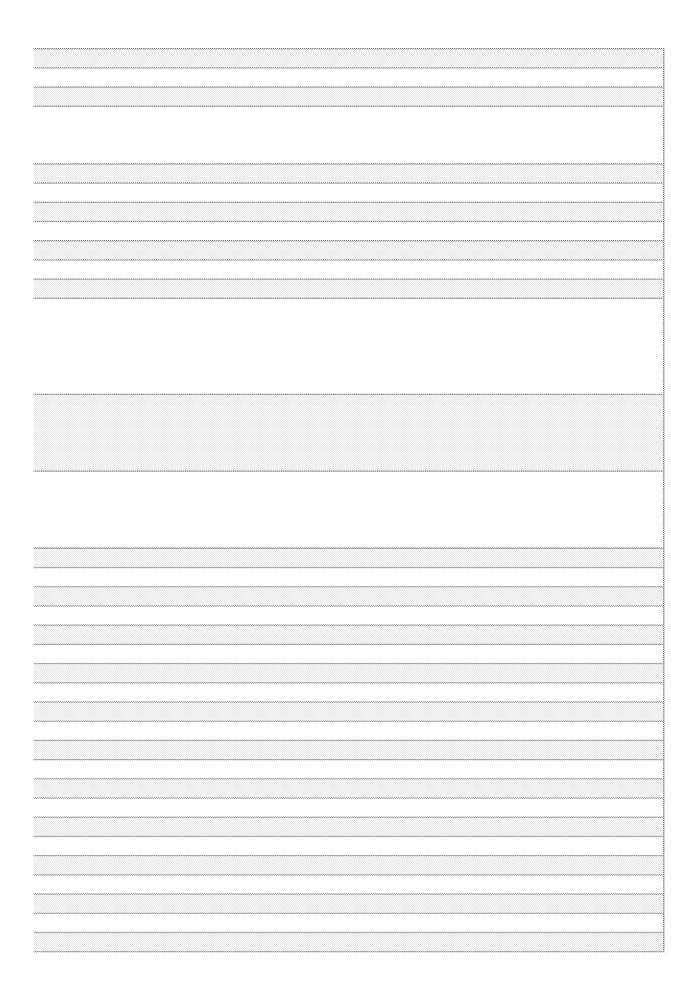






Fem the s		n bre	d albi	no rats	(175 g)) expos	ed for	r up to 2	20 wk. '	'Macros	copic	lesior	is were	confine	ed to the	liver and	
relat	tive k	veigh													absolute n appeare		

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Tani et al.	1980	1406111
Tani et al.	1980	1406111
Tani et al.	1980	1406111
Aly et al.	2009	1406313
Aly et al.	2009	1406313
Watanabe and Sugahara	1981	1406415
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Watanabe and Sugahara	1981	1406415
Chow et al.	1981	1406418
Chow et al.	1981	1406418
Chow and Gairola	1981	1406420
Chow and Gairola	1981	1406420
Jonsson et al.	1981	1406435
Deml and Oesterle	1982	1406669
Deml and Oesterle	1982	1406669
Deml and Oesterle	1982	1406669
Kluwe et al.	1982	1406671
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Kluwe et al.	1982	1406671
Kluwe et al.	1982	1406671
Kluwe et al.	1982	1406671
Hori et al.	1982	1406694
Saito et al.	1982	1406695

Saito et al.	1982	1406695
Saito et al.	1982	1406695
Saito et al.	1982	1406695
Oesterle and Deml	1983	1407028
Oesterle and Deml	1983	1407028
Saito et al.	1983	1407180
Saito et al.	1983	1407180
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Elumalai et al.	2009	1407232
Elumalai et al.	2009	1407232
Carter and Mercer	1983	1407352
Oesterle and Deml	1984	1407494
Oesterle and Deml	1984	1407494
Nesković et al.	1984	1407759
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liver cholesterol, plasma cholesterolaminopyrine demethylaseliver total lipidsliver weightliver ascorbic acid liver cholesterol, plasma cholesterolaminopyrine demethylaseliver total lipidsliver weightliver ascorbic acid absolute testes and epididymis weight sperm count, motility, and production, sperm abnormalities weight gain pregnancy rate weight gain pregnancy rate liver weightvitamin C liver weightvitamin C hepatic enzymes, aryl hydrocarbon hydroxylase (AHH) activity, hepatic levels of thiobarbituric acid reactants (TBAR), redu hepatic enzymes, aryl hydrocarbon hydroxylase (AHH) activity, hepatic levels of thiobarbituric acid reactants (TBAR), redu gross liver pathology, liver histopathology (light and electro microscopic examination) mitotic index in liverevaluation of hepatocyte sizeliver weight mitotic index in liverevaluation of hepatocyte sizeliver weight mitotic index in liverevaluation of hepatocyte sizeliver weight adverse liver morphologyhepatic lipidsliver weightporphyrin depositsGPT activity liver histopathology (hepatocyte enlargement, infiltration with inflammatory cells, proliferation of epithelial cells of bile glutathione peroxidaselipids; lipid peroxideliver weightvitamins E and A histologyliver weight histologyliver weight liver microsomal enzyme activityliver weight liver microsomal enzyme activityliver weight testes weight serum testosterone relative wet liver weight histologyliver weight histologyliver weight

liver enzymes (NADPH-cytochrome c reductase activity and cytochrome P-450 content)liver weightserum enzymes

liver cholesterol, plasma cholesterolaminopyrine demethylaseliver total lipidsliver weightliver ascorbic acid

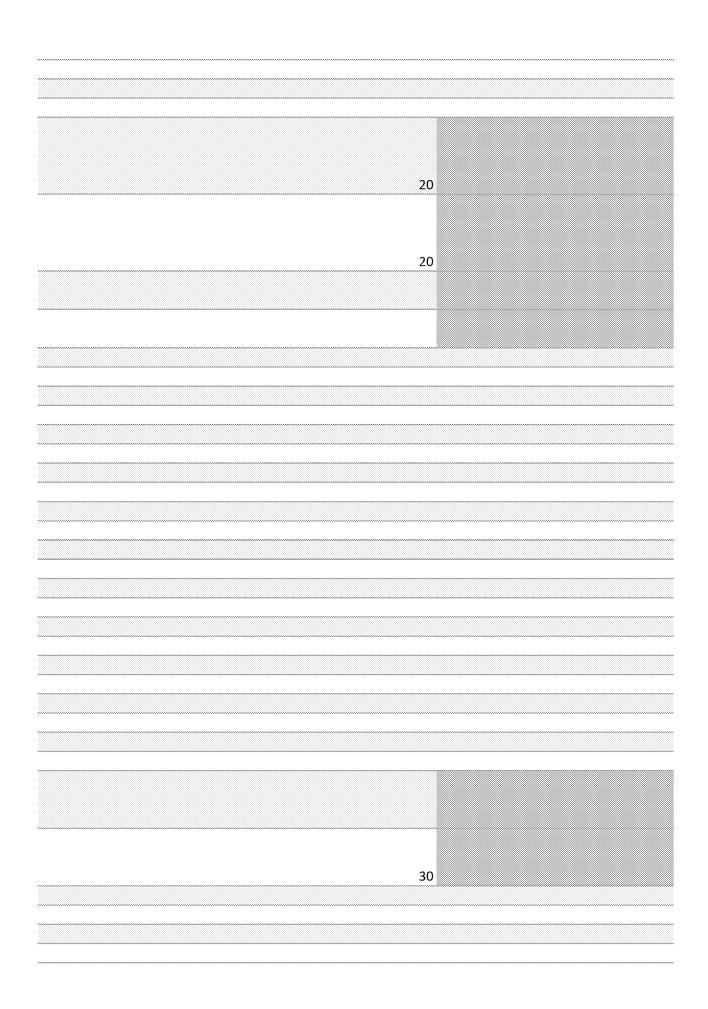
Liver Lipids/Steatosis	Hepatobiliary		
Liver Weight/Hepatomegaly	Hepatobiliary		
Micronutrients	Hepatobiliary	00000000	
Reproductive organ size/weight, male	Reproductive		

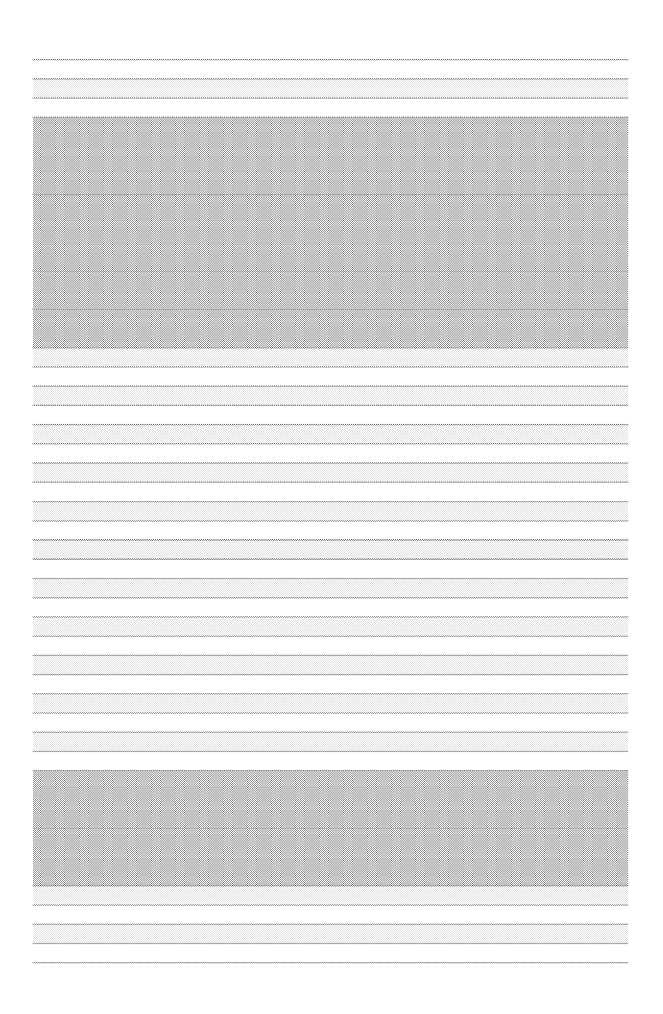
Sperm/semen parameters	Reproductive
Maternal weight gain	Reproductive
Pregnancy/conception rate	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Cell Proliferation	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary

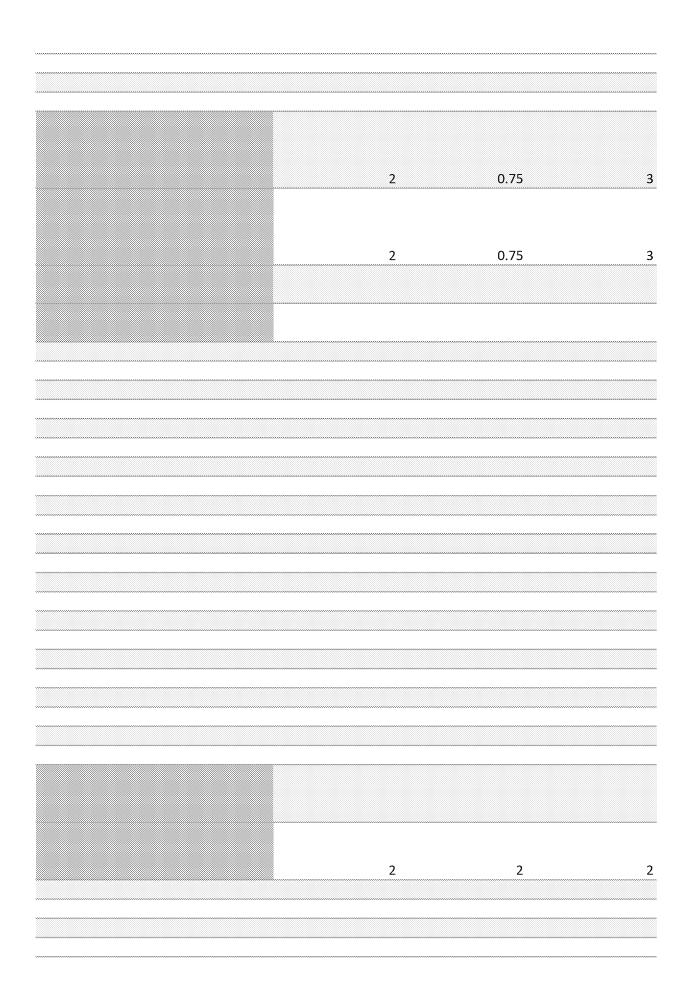
Aroclor 1248	
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Aroclor 1248	
Aroclor 1254	
ATOMOT 1234	
Aroclor 1254	
Kanechlor 500	
Kanechlor 500	
Aroclor 1254	
Aroclor 1242	
Clophen A50	
Clophen A50	
Clophen A50	
Aroclor 1254	
Kanechlor 400	
PCBs	
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Aroclor 1254	
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Clophen A50	
Clophen A50	
Aroclor 1242	

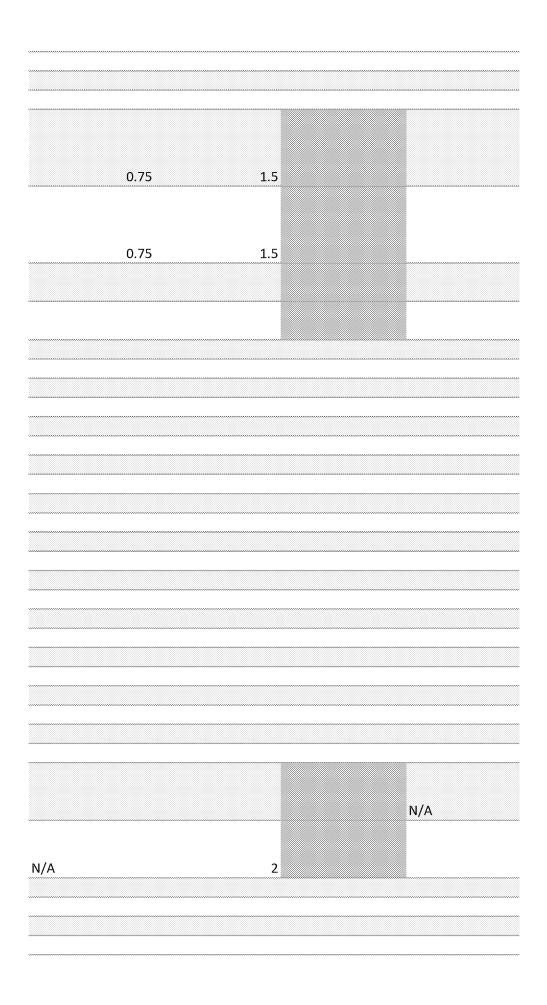
 Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
Rat	Injection-ip
 Rat	Injection-ip
 Mouse	Injection-sc
Mouse	Injection-sc
 Rat	CHECK
 Rat	CHECK
Rat	
 Rat	Injection-ip Injection-ip
Rat	Oral-diet
 Rat	
 Rat	Oral govern
 Rat	Oral gavage
Rat	Oral-gavage Oral-CHECK
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 Rat	Oral-CHECK Oral-CHECK
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Rat	Oral-CHECK Oral-CHECK
Cynomolgus monkey	Oral-critick Oral-diet
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 Rat	Oral-diet Oral-diet
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Rat	Oral-gavage
 Rat	Oral-gavage Oral-gavage
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Rat	Oral-gavage

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Primary	97
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Primary	
Drimany	00
Primary	90



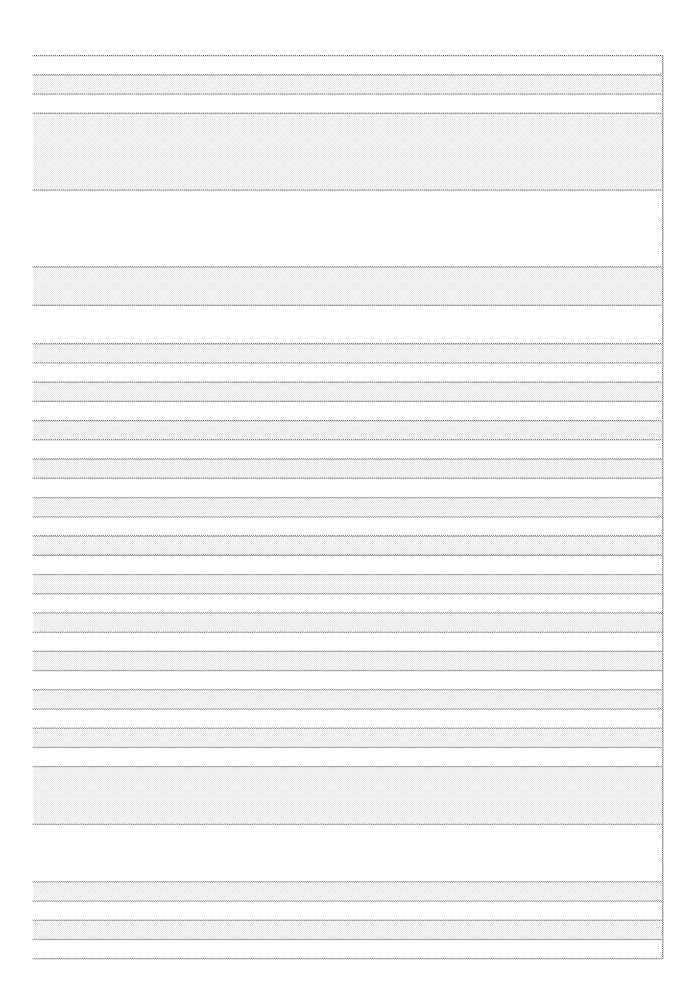






	Adult male rats (90+7 days old) were injected with 0, 0.75, 1.5 or 3 mg/kg/day i.p. for 20 days. LOAEL based on decreased absolute and relative testis and epididymides weights (Table 1).								
Adult male rats (90+7 day decreased sperm count, s					pased on				
Adult male rats were injected with 0 or 2 mg/kg-day ip for 30 days. No effect on relative testis weight (Table 1).									
Adult male rats were injetestosterone at necropsy		g-day ip for 30 days	. LOAEL is based or	significantly dec	reased serum				
	·								

22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
10	0.0	0.220	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
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22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
168	0.9	0.199	0.054	1	154
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
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22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
	3.5	2.33 1			



Nesković et al.	1984	1407759
Nesković et al.	1984	1407759
Yagi et al.	1985	1407989
Yagi et al.	1985	1407989
Mele et al.	1986	1408333
Mele et al.	1986	1408333
Mele et al. Lubet et al.	1986 1986	1408333 1408430
Nagaoka et al.	1986	1408484
Nagaoka et al.	1986	1408484
Nagaoka et al.	1986	1408484
Nagaoka et al.	1986	1408484
Oda et al.	1986	1408492
Oda et al.	1986	1408492
Oda et al.	1986	1408492
Oda et al.	1986	1408492
Gans	1986	1408543
Gans	1986	1408543
Linzey	1987	1408824
Linzey	1987	1408824

liver enzymes (N.	ADPH-cyto	chrome	c reduct	ase activ	rity and o	ytochro	me P-450) content	t)liver w	eightseru	m enzyr	nes
		*******	******	********				*******	******	eightseru	ım enzyr	nes
dark-brown pigm	entation v	vhich wa	s identifi	ied histo	chemica	lly as a c	eroidlive	r weight				
		l :			:		:				_1	
operant conditio	iling (lixeo	i-iiitei vai	scriedui	ie 01 100i	u rennor	cement,	rennorc	ement o	IIIISSIOII	procedur	e)	
operant conditio	ning (fixed	l-interval	schedul	e of foo	d reinfor	cement,	reinforc	ement o	mission	procedur	e)	
liver enzymes (NADPH-cytochrome c reductase activity and cytochrome P-450 content)liver weightserum enzymes liver enzymes (NADPH-cytochrome c reductase activity and cytochrome P-450 content)liver weightserum enzymes dark-brown pigmentation which was identified histochemically as a ceroidliver weight dark-brown pigmentation which was identified histochemically as a ceroidliver weight dark-brown pigmentation which was identified histochemically as a ceroidliver weight dark-brown pigmentation which was identified histochemically as a ceroidliver weight development of the pigment of the p												
operant conditio	ning (fixed	l-interval	schedul	e of foo	d reinfor	cement,	reinforc	ement o	mission	procedur	e)	
induction of liver	microsom	ne activit	У			***************************************	***************************************					
cholesterol levels	liver total	lipids, p	hospholi	pids, trig	glyceride	relative	liver wei	ght, liver	weight	ascorbic a	acid	
cholesterol levels	sliver total	lipids, p	hospholi	pids, trig	glyceride	relative	liver wei	ght, liver	weight	ascorbic a	acid	
cholesterol levels	liver total	lipids, p	hospholi	pids, trig	glyceride	relative	liver wei	ght, liver	weight	ascorbic a	acid	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
cholesterolliver li	pids (total	and pho	spholipi	ds), trigl	ycerides	liver we	ghtliver	ascorbic	acid			
		*******************			***********				*********			
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		**********	*********					***********	*********	ilobular h	epatocy	te hyper
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litter size offspri	ng mortali	tv (E1)										
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precuing rate (FC	' <u> </u>		****************									

Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cognitive function	Nervous System

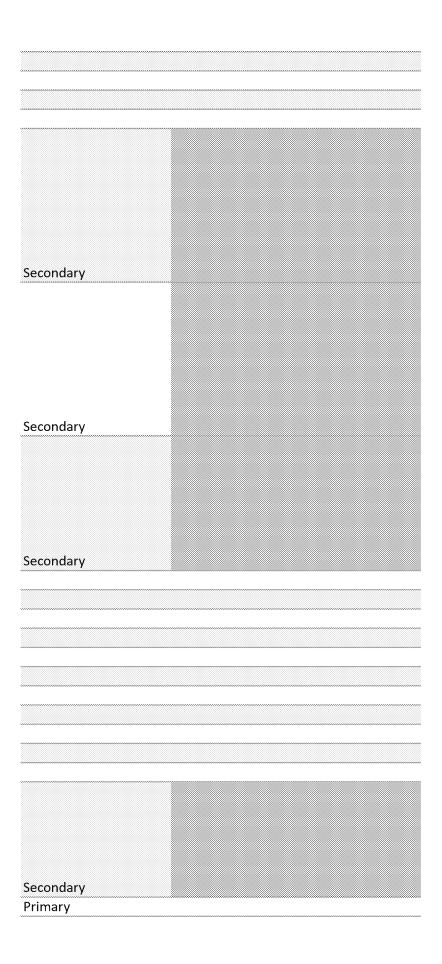
Cognitive function	Nervous System
Cognitive function	Nervous System
Liver Enzyme Induction	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Offensing mortality	Douglopmontal
Offspring mortality	Developmental Names Systems
Sexual behavior	Nervous System

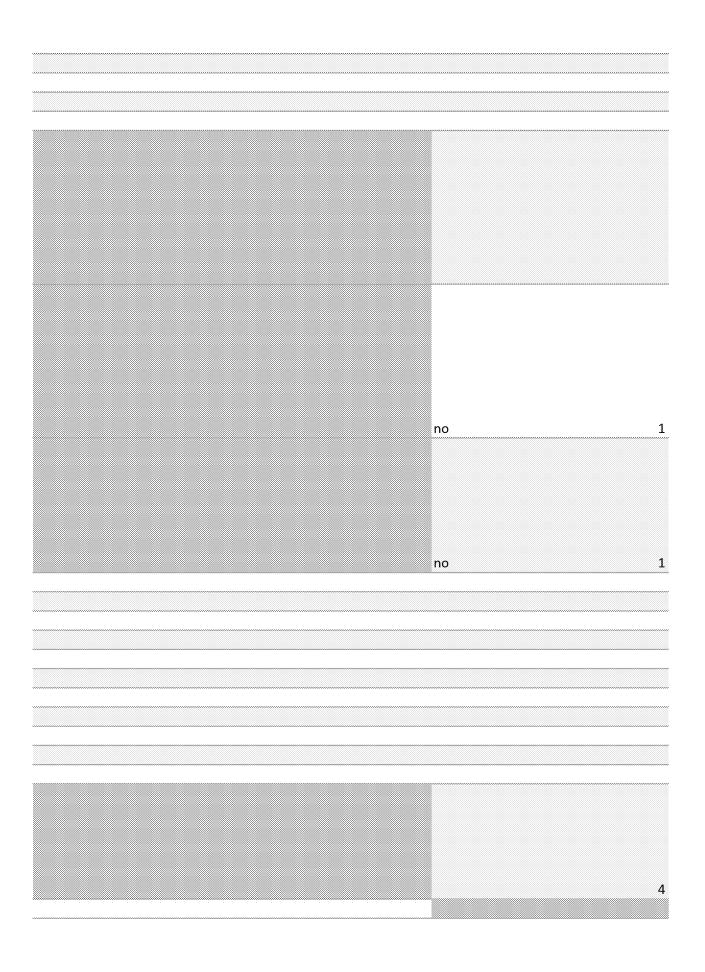
Aroclor 1242				
Aroclor 1242		 	 	
Kanechlor 500				
Kanechlor 500				
Aroclor 1248				

Aroclor 1248		 			 	 		 					
Aroclor 1248													
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Aroclor 1248													
Aroclor 1248		***************************************	***************************************		 	 	***************************************	 					
Aroclor 1254													
Aroclor 1254	***************************************	 		***************************************	 	 	*********	 ********	*********	********	***********	*********	********
Aroclor 1254													
Aroclor 1254		 			 	 		 					

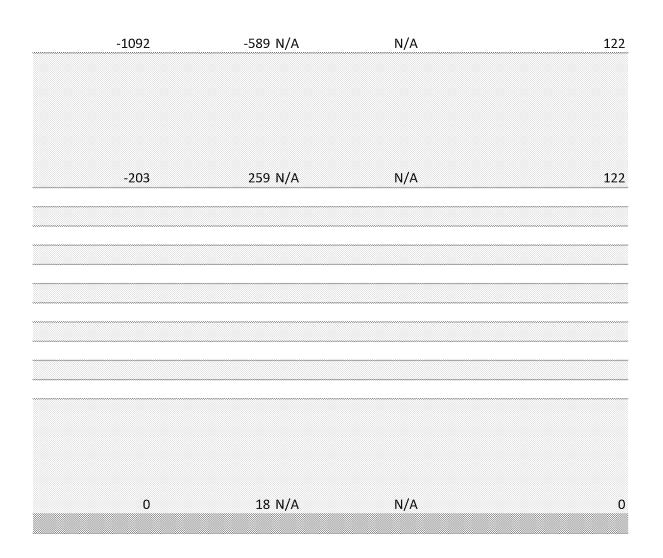
Rat	Oral-gavage	
 Rat	Oral-gavage	 
Mouse	Oral-dietOral-gavage	
Mouse	Oral-dietOral-gavage	
Rhesus monkey	Oral-diet	

	Rhesus monkey	Oral-diet	
	DI	Out that	
	Rhesus monkey	Oral-diet	
	Mouse	Injection-ip	
	Rat	Oral-diet	
***************************************	Rat	Oral-diet	
	Mouse	Oral-diet	
	Mouse	Oral-diet	
	Mouse	Oral-diet	
	Mouse	Oral-diet	

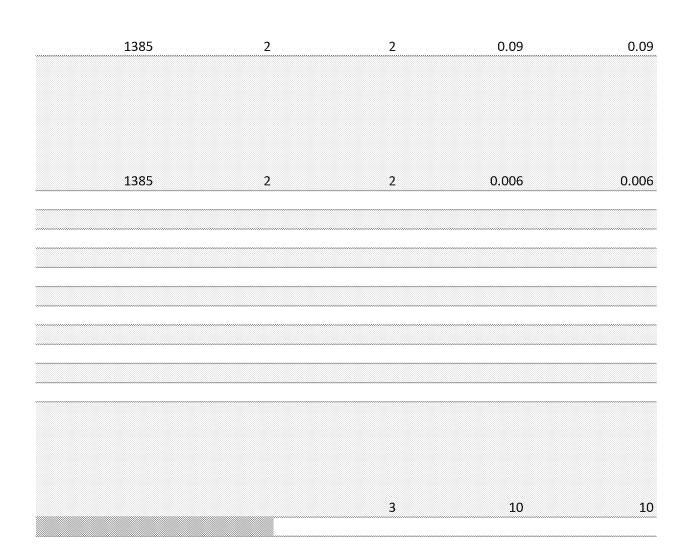




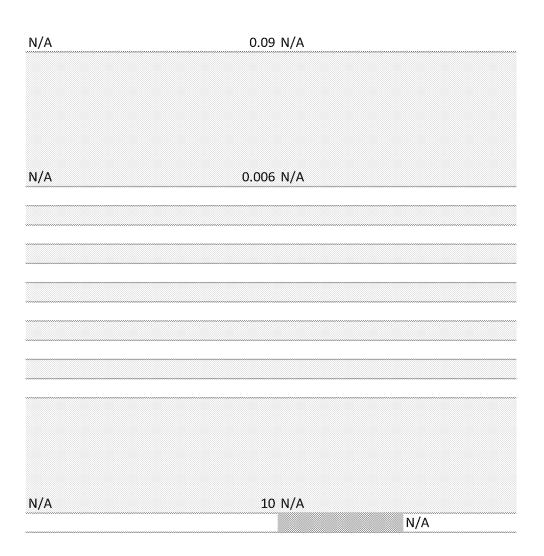








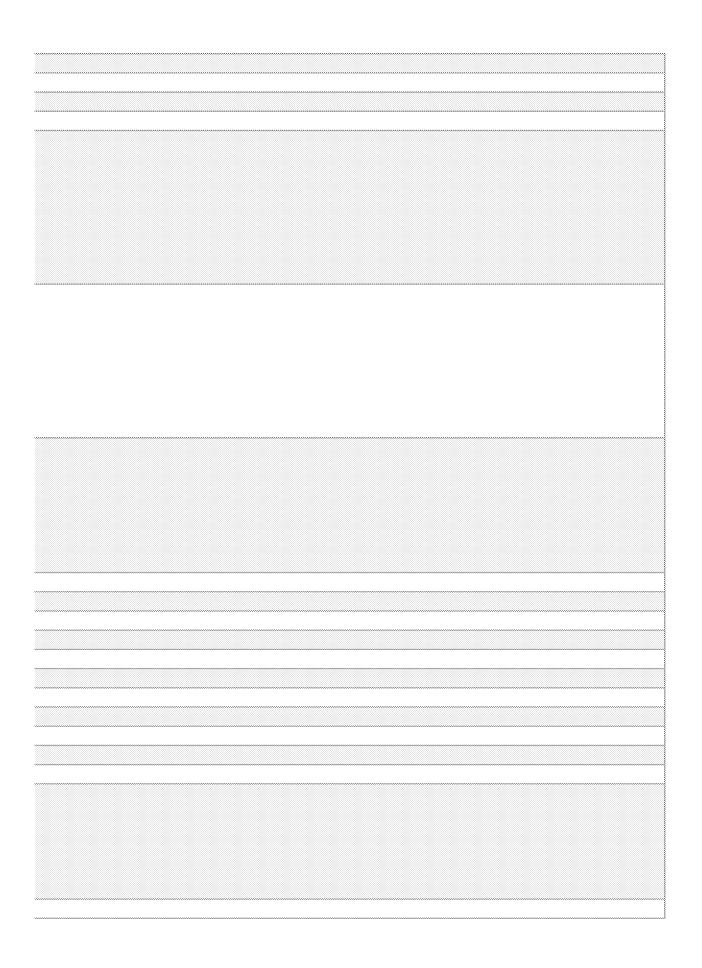




Rhesus monkey dams dosed for 86.4-89.4 wk (Table 1 in HERO #199846; assume 605 d). Dosing stopped after dam nursed offspring for 3 mo. Lactation duration 4 mo (122 d). Dose is reported as 2.5 ppm with precise exposure estimates provided in Table 1 in HERO #199846 (mean dose = 0.627 mg/kg-wk (0.09 mg/kg-d)). No effects of exposure on cognitive test performance were reported.
Rhesus monkey dams dosed for 71.9-89.4 wk (Table 2 in HERO #199846; assume 503 d; corresponding "weeks off PCB diet" is 84.1 (589 d)). Lactation duration 4 mo (122 d). Dose is reported as 2.5 ppm with precise exposure estimates provided in Table 2 in HERO #199846 (mean dose = $0.664  \text{mg/kg-wk}$ ( $0.09  \text{mg/kg-d}$ )). Cognitive test performance was altered at ~40 mo of age.
Rhesus monkey dams dosed for 66-83 wk (Table 3 in HERO #199846; assume 462 d). Lactation duration 4 mo (122 d). Dose is reported as 0.5 ppm with precise exposure estimates provided in Table 3 in HERO #199846 (mean dose = $0.044$ mg/kg-wk ( $0.006$ mg/kg-d)). Cognitive test performance was altered at ~40 mo of age.
Continuous dosing for 9-15 months beginning at 12 weeks of age (mice); timing of pregnancies within this period is unclear; assume mating on the first day of exposure, litter size measured at birth Average litter size of 4 pups estimated from data presented in Table 3

 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
 168	0.9	0.199	0.054	1	154

	168	0.9	0.199	0.054	1	154
	168	0.9	0.199	0.054	1	154
******************************	18	0.9	0.229	0.264	6	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
****************	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
***************************************	18	0.9	0.229	0.264	6	21
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Linzey	1987	1408824
Linzey	1987	1408824
Oda et al.	1987	1408825
Oda et al.	1987	1408825
Oda et al.	1987	1408825
Oda et al. Oda et al.	1987 1987	1408825 1408825
Oda et al.	1987	1408825
Poul	1987	1408870
Poul	1987	1408870
Poul	1987	1408870
Johansson Johansson	1987 1987	1408912 1408912
Linzey	1988	1409002
Linzey	1988	1409002
Linzey	1988	1409002

birth interval (F0)
litter size, litters/breeding female (F0)
cholesterolmicrosomes (cytochrome P-450, cytochrome b5, and protein)histopathology (hepatocyte hypertrophy and acc
cholesterolmicrosomes (cytochrome P-450, cytochrome b5, and protein)histopathology (hepatocyte hypertrophy and acc
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cholesterolmicrosomes (cytochrome P-450, cytochrome b5, and protein)histopathology (hepatocyte hypertrophy and acc
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liver microsomal enzyme activitiesliver lipidsliver weight
liver microsomal enzyme activitiesliver lipidsliver weight
relative testis weight
plasma testosterone
relative testis weight
plasma testosterone
litter size, litter number, offspring mortality (F2)
offspring weight, weight gain, growth rate patterns (F1)
birth interval (F1)

ime-to-pregnancy and couple fertility	Reproductive	

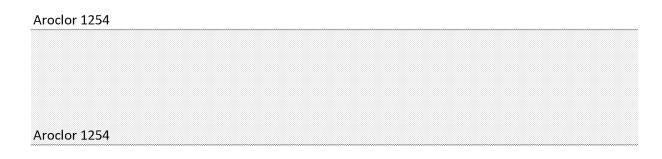
Pregnancy/conception rate	Reproductive
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive

Offspring mortality	Developmental		
Weight and size (early life)	Developmental		

Time-to-pregnancy and couple fertility	Reproductive
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oclor 1254				
OCIOI ILDI				

Aroclor 1254	
Aroclor 1248	
Phenochlor DP5	
Phenochlor DP5	
Phenochlor DP5	
Clophen A50	
Clophen A50	



Aroclor 1254

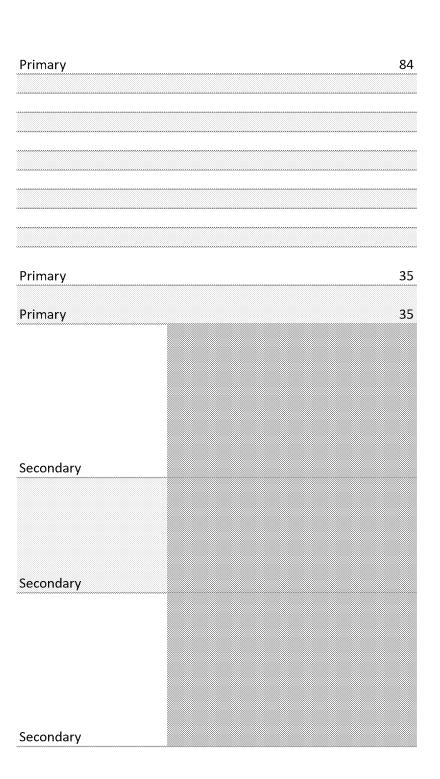
Mouse Oral-diet
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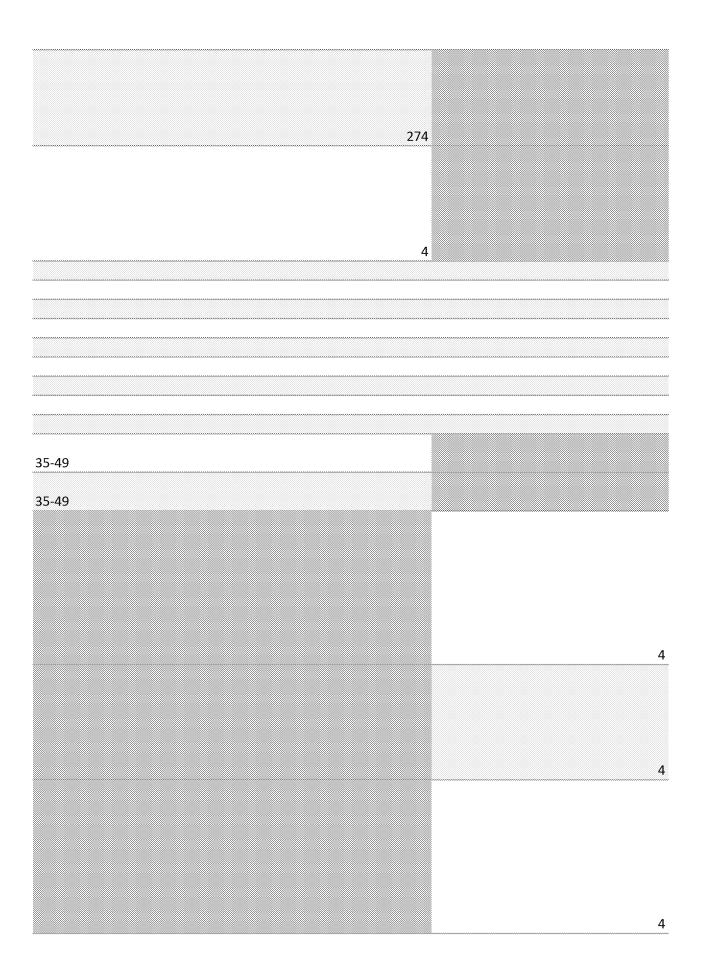
 Mouse	Oral-diet
Rat	Oral-diet
 Mouse	Oral-gavage
Mouse	Oral-gavage
Rat Rat Rat Rat Rat Rat Rat Rat Mouse	Oral-diet

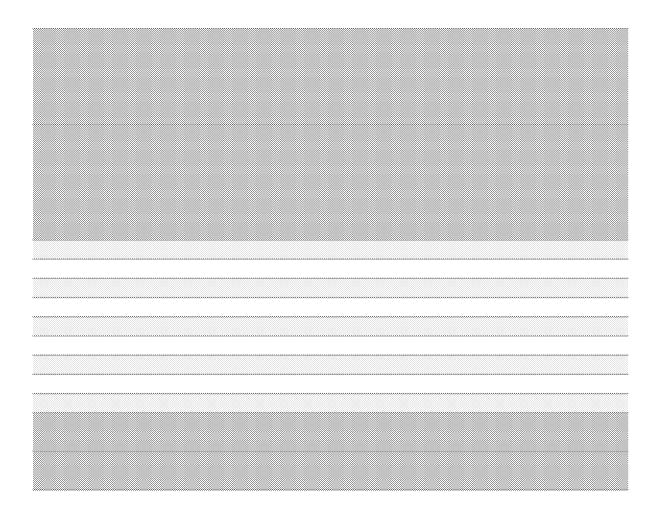
Mouse	Oral-diet	
Mouse	Oral-diet	

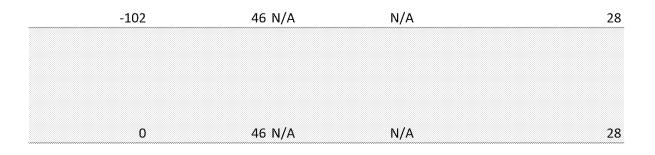
Mouse	Oral-diet	

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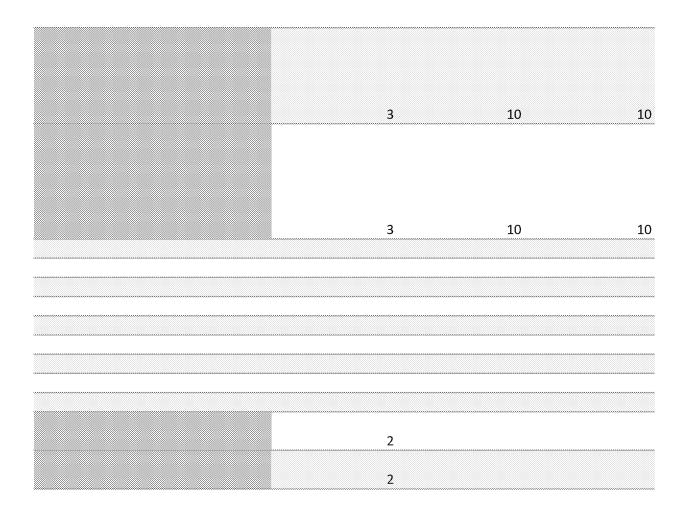


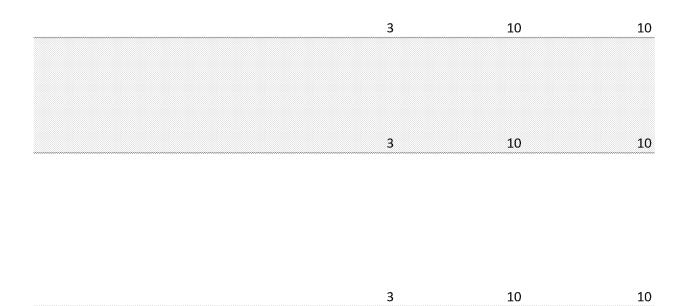


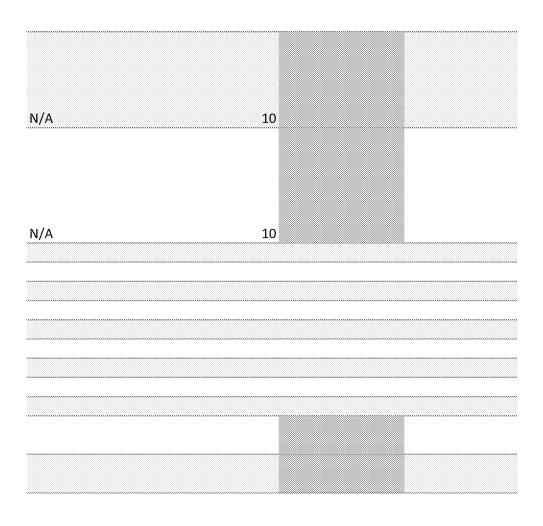


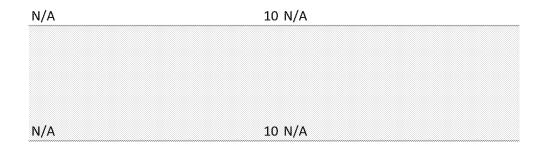


0 46 47 345 28









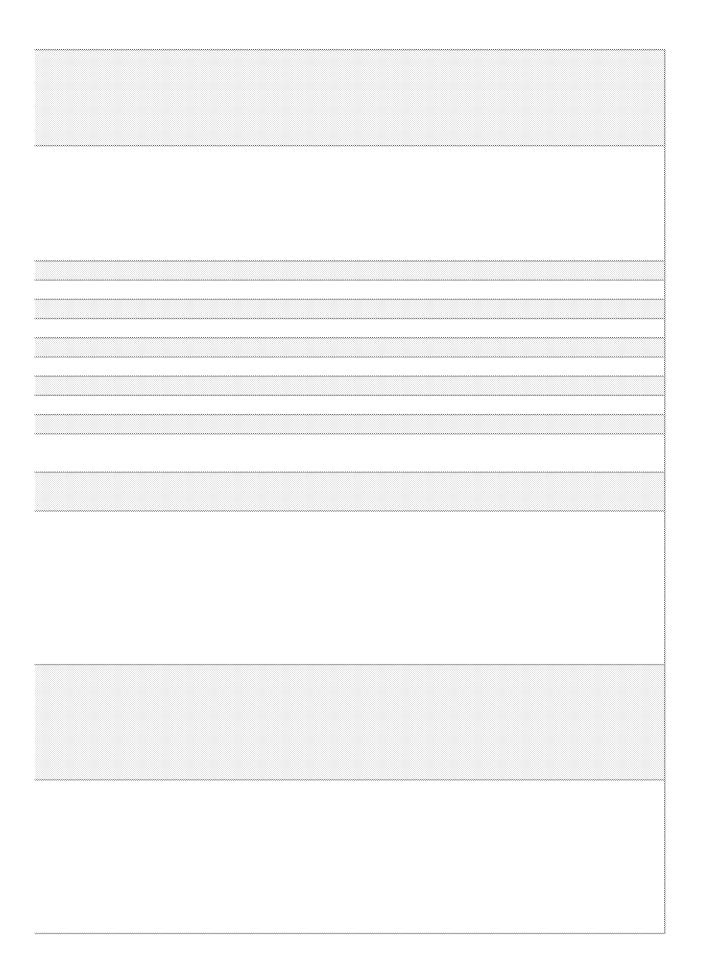
N/A 10 10

18 0.9 0.229 0.264 6	

	18	0.9	0.229	0.264	6	21
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	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
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18	0.9	0.229	0.264	6	21

18 0.9 0.229 0.264 6 21



Linzey	1988	1409002
Linzey	1988	1409002
Linzey Rao Rao Oda et al. Oda et al. Oda et al. Oda et al. Nagaoka et al. Nagaoka et al.	1988 1990 1990 1990 1990 1990 1990 1990	1409002 1409909 1409909 1410008 1410008 1410008 1410073 1410073
Steinberg et al.	2008	1410076
Steinberg et al.	2008	1410076
Steinberg et al.	2008	1410076

number of young/litter, number of litters/breeding female, pregnancy	rate (F1)	
uterine and ovarian weights (F1)		
: 1 1		
testis and male accessory gland weights (F1)	a hyporplasia karyolysis and l	carvorrhovic\livor cu
liver histopathology (centrilobular hypertrophy, hepatocellular damage liver histopathology (centrilobular hypertrophy, hepatocellular damage		***************************************
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liver histopathology (centrilobular hypertrophy, hepatocellular damage liver histopathology (centrilobular hypertrophy, hepatocellular damage total and free cholesterolmorphological changeslipoproteins, triglyceric cholesterolliver total lipids, phospholipids, triacylglycerol cholesterolliver total lipids, phospholipids, triacylglycerol estrous cyclicity litter size ovarian weights, uterine weights progesterone, estradiol, LH estrous cyclicity litter size ovarian weights, uterine weights progesterone, estradiol, LH estrous cyclicity	e, hyperplasia, karyolysis, and l de, phospholipidliver weight de, phospholipidliver weight de, phospholipidliver weight	***************************************
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Pregnancy/conception rate	Reproductive

Reproductive organ size/weight, female	Reproductive
Reproductive organ size/weight, male	Reproductive
Liver Histopathology	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary

Estrous/menstrual cycle characteristics	Reproductive	
,	n l.·	
regnancy/conception rate	Reproductive	

Reproductive organ size/weight, femal	e Reproductive



Aroclor 1254

Aroclor 1254

Aroclor 1260

Aroclor 1260

Aroclor 1248

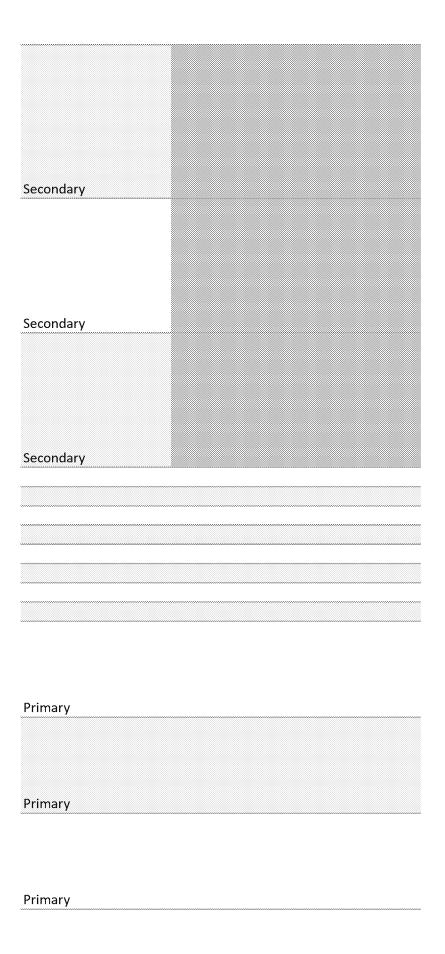


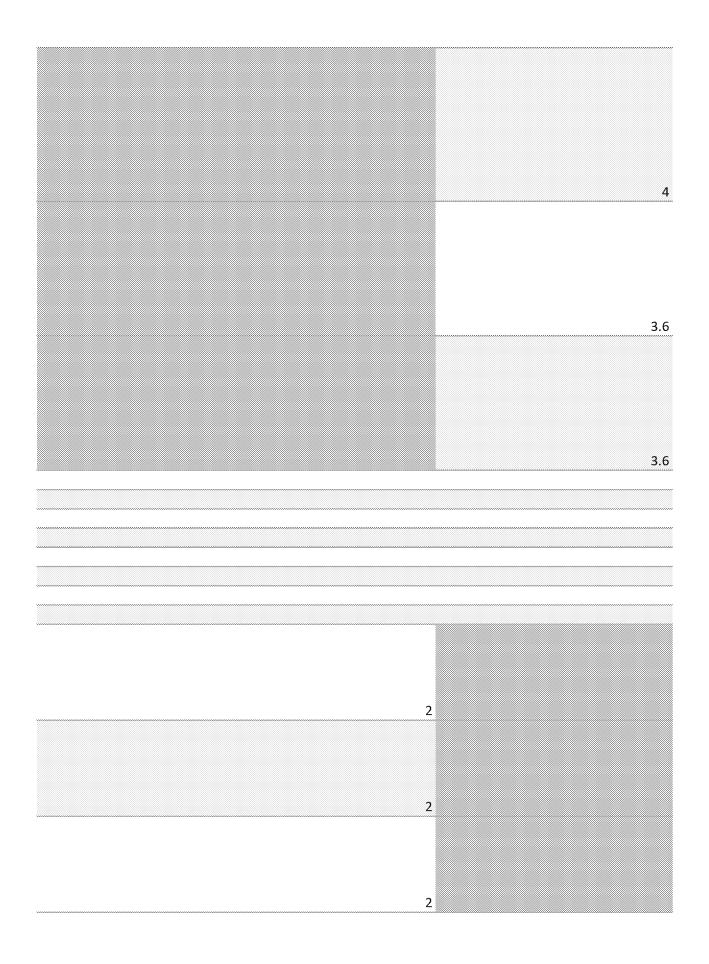
Aroclor 1221

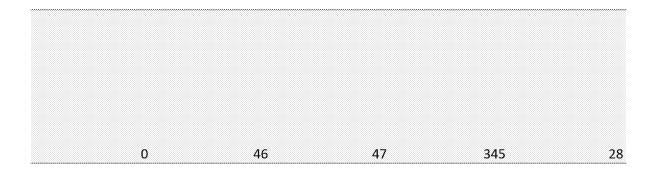
Mouse	Oral-diet	
MOUSE	Orar-ulet	

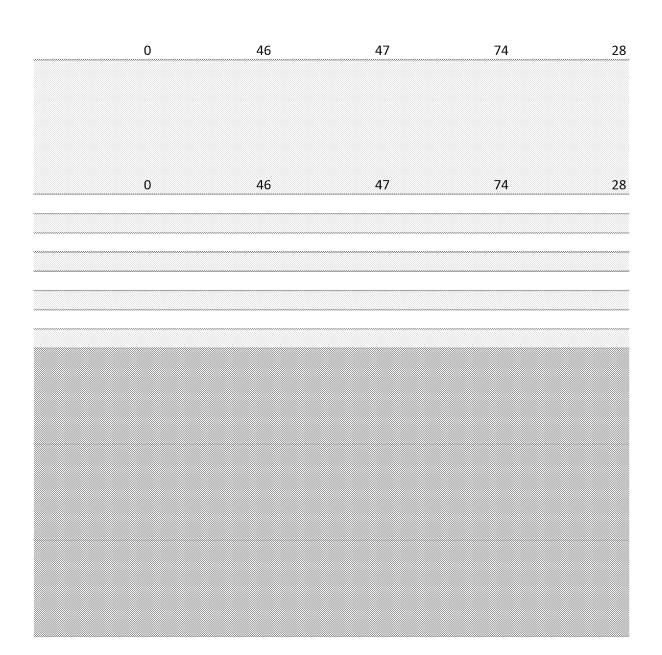
Mouse	Oral-diet	
	Out that	
Mouse	Oral-diet	
Rat	Oral-diet	

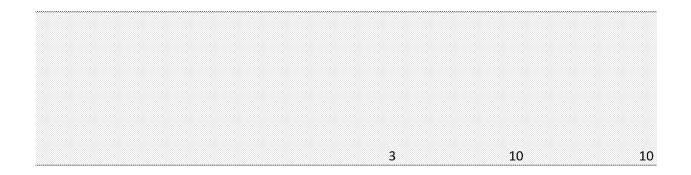
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Rat	Injection-ip	

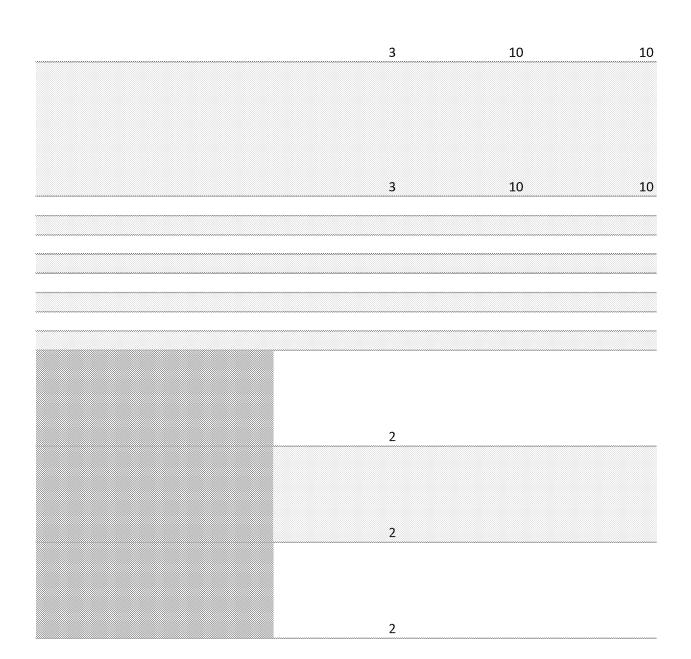


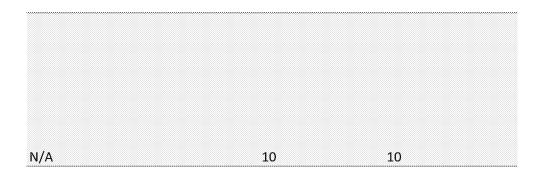


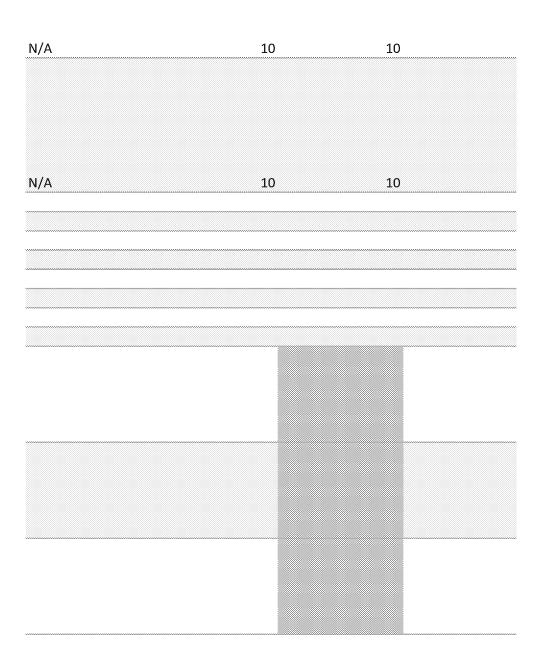










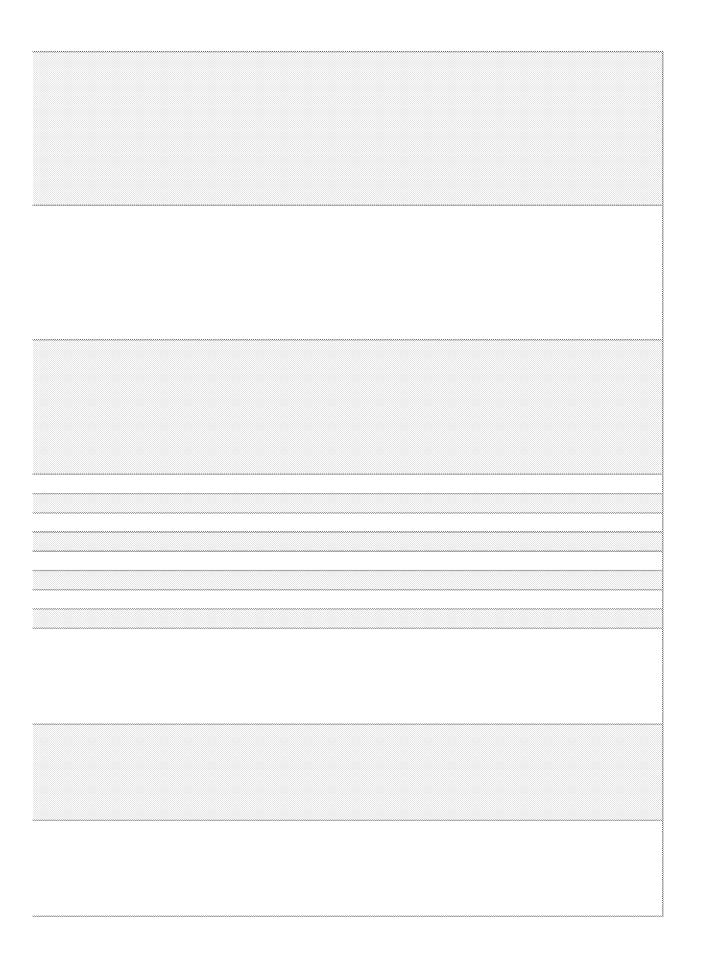


The F0 generation was dosed continuously for 18 months; these were wild-caught mice of unknown age; timing of pregnancies within this period is unclear; assume mating on the first day of exposure; F1 generation was mated beginning at 12 weeks of age and continuing for 8-13 months  Average litter size for the LOAEL dose group was 4 (Table 2; HERO #1408824)
Continuous dosing for 9-15 months beginning at 12 weeks of age (mice); timing of pregnancies within this period is unclear; assume mating on the first day of exposure, ovarian and uterine weights altered at 8 weeks of age Average litter size for the LOAEL dose group was 3.6 (Table 3; HERO #1408824)
Continuous dosing for 9-15 months beginning at 12 weeks of age (mice); timing of pregnancies within this period is unclear; assume mating on the first day of exposure, male accessory gland weights altered at 8 weeks of age
Average litter size for the LOAEL dose group was 3.6 (Table 3; HERO #1408824)
Dosed on GD16 and 180, 0.1, 1, or 10 mg/kg-day
Dosed on GD10 and 180, 0.1, 1, or 10 mg/kg-day
Dosed on GD16 and 180, 0.1, 1, or 10 mg/kg-day
Dosed on GD16 and 180, 0.1, 1, or 10 mg/kg-day

	18	0.9	0.229	0.264	6	21

***************************************	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	22	0.9	0.094	0.154	10	21
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	22	0.9	0.094	0.154	10	21
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	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21



Steinberg et al.	2008	1410076
Jenke et al.	1991	1410489
Jenke et al.	1991	1410489
Jenke et al.	1991	1410489
Poul	1991	1410599
Poul	1991	1410599
Poul	1991	1410599
Poul	1992	1410770
Poul	1992	1410770
Poul	1992	1410770
Sugawara et al.	2008	1410853
Sugawara et al.	2008	1410853
Jugawai a Ct ai.	2000	1410033
Sugawara et al.	2008	1410853
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S	2009	1410052
Sugawara et al.	2008	1410853
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Sugawara et al.	2008	1410853
Sugawara et al.	2008	1410853
Sugawara et al.	2008	1410853
Sugawara et al.	2008	1410853
Simmons and Mckee	1992	1411046
Simmons and Mckee	1992	1411046

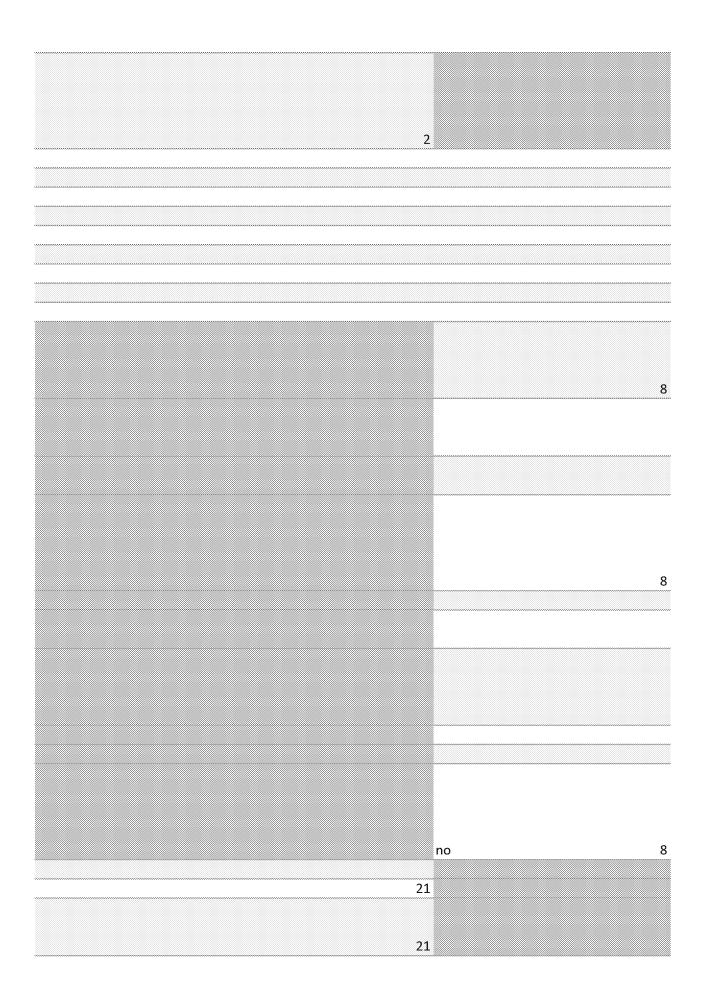
estrous cyclicity litter size	
litter size	
ovarian weights, uterine weights	
progesterone, estradiol, LH	
DNA synthesis in liver	
DNA synthesis in liver	
DNA synthesis in liver	
cholesterolliver lipidsliver weight	
cholesterolliver lipidsliver weight	
cholesterolliver lipidsliver weight	
liver microsomal enzyme activitiesliver lipidsliver weight	
liver microsomal enzyme activitiesliver lipidsliver weight	
liver microsomal enzyme activitiesliver lipidsliver weight	
physical features observed before weaning: pinna detachment, hair growth, eye opening	
litter size, number of surviving male offspring on PND 1	
number of surviving male offspring on PND 1	
number of surviving male offspring on PND 1	
number of surviving male offspring on PND 1 pup weight	
number of surviving male offspring on PND 1 pup weight	
number of surviving male offspring on PND 1  pup weight incisor eruption	
number of surviving male offspring on PND 1  pup weight incisor eruption	
number of surviving male offspring on PND 1  pup weight  incisor eruption  spontaneous locomotion activity, open-field test	
number of surviving male offspring on PND 1  pup weight incisor eruption  spontaneous locomotion activity, open-field test  grasp reflex, righting reflex, walking, negative geotaxis, cliff avoidance, swimming speed	
number of surviving male offspring on PND 1  pup weight  incisor eruption  spontaneous locomotion activity, open-field test	

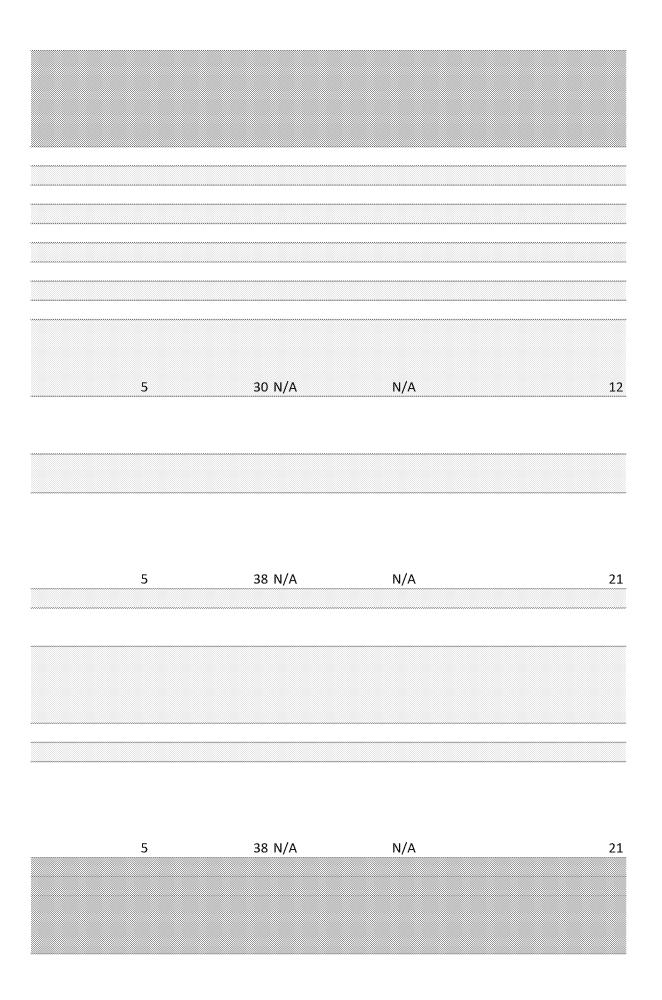
Sex hormone levels, female	Reproductive
Liver Cell Proliferation	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Developmental milestones	Developmental
Offspring mortality	Developmental
Sex ratio	Developmental
Weight and size (early life)	Developmental
Dental effects	Musculoskeletal
Activity level	Nervous System
Motor function	Nervous System
Brain-histological, structural, morphological	Nervous System
Cognitive function	Nervous System
Emotional state/affective behavior	Nervous System
Maternal weight gain	Reproductive
Adrenal weight	Endocrine
Liver enzyme induction	Hepatobiliary

Aroclor 1221	
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Clophen A50	
Phenochlor DP5	
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Aroclor 1254	
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ATUCIOI 1234	
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Aroclor 1254 Aroclor 1254	
Aroclor 1254	
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Aroclor 1254	
Aroclor 1254 Aroclor 1254	
Aroclor 1254	

Rat	Injection-ip
 Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-gavage
 1100	Oldi BavaBo
Mouse	Oral gayaga
 Wouse	Oral-gavage
N. 4	0-1
 Mouse	Oral-gavage
 Mouse	Oral-gavage
Maria	
Mouse	Oral-gavage
Mouse Mouse	Oral-gavage Oral-gavage
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse	Oral-gavage
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Mouse  Mouse  Mouse  Mouse  Mouse  Mouse  Mouse	Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage
Mouse  Mouse  Mouse  Mouse  Mouse  Mouse	Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage
Mouse  Mouse  Mouse  Mouse  Mouse  Mouse  Mouse	Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage  Oral-gavage
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Primary			105





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74 2	2	6	6
	3	2.5	100
			100
	3	2.5	100

N/A	6 N/A	
		N/A
		N/A
N/A	6 N/A	N/A
		N/A N/A
		IVA
N/A	6 N/A	
		N/A N/A
N/A	2.5	

sed on GD16 and 18	30, 0.1, 1, or 10 mg/kg-day		
ouse dams dosed by	gavage every 3 days (18 mg/k	g) from GD5-PND20; eye opening	affected by PND12
	pups estimated from data pre		
	gavage every 3 days (18 mg/kg	g) from GD5-PND20; pup weight sented in Table 1	affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
			affected by 6 weeks of age
erage litter size of 8	gavage every 3 days (18 mg/kg		
erage litter size of 8 ouse dams dosed by ency) affected after	gavage every 3 days (18 mg/kg	g) from GD5-PND20; open field b	
erage litter size of 8 ouse dams dosed by ency) affected after	gavage every 3 days (18 mg/kg 8 weeks of age	g) from GD5-PND20; open field b	

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	
	22	0.9	0.094	0.154	10	21 21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21 21
	<i></i>	0.5	0.034	0.134	10	2.1
	18	0.9	0.229	0.264	6	21
	10	0.9	0.229	0.204	J	21
	18	0.9	0.229	0.264	6	21
	10	0.9	0.229	0.204	U	21
	18	0.9	0.229	0.264	6	21
	10	0.5	0.229	0.204	U	Z1
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	
	10	0.9	0.229	0.204	О	21
	10	0.0	0.220	0.264	6	21
	18	0.9	0.229	0.264	6	21
	10	0.0	0.220	0.004	•	21
***************************************	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
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	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
******************	18	0.9	0.229	0.264	6	21

Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)	Adequate Adequate	Good Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good
Not reported (interpreted as Deficient)	Adequate	Good

Simmons and Mckee	1992	1411046
Simmons and Mckee	1992	1411046
Simmons and Mckee	1992	1411046
Simmons and Mckee	1992	1411046
Borlakoglu et al.	1993	1411321
Borlakoglu et al.	1993	1411321
Yamamoto et al.	1994	1411672
Yamamoto et al.	1994	1411672
Yamamoto et al.	1994	1411672
Yamamoto et al.	1994	1411672
Yamamoto et al.	1994	1411672
CI	1004	1411600
Seegal	1994	1411680
Seegal	1994	1411680
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Seegal	1994	1411680
Coord	1004	1411680
Seegal	1994	1411080
Seegal	1994	1411680
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Seegal	1994	1411680
Soontornchat et al.	1994	1411900
Soontornchat et al.	1994	1411900

liver weight	 	 	
spleen weight	 	 	
testes weight	 	 	
kidney weight	 	 ~ ~ 1	.1 1 /r
P450 isoenzymes (cytochrome P450, cytochrome b5, microsomal P450 isoenzymes (cytochrome P450, cytochrome b5, microsomal	 	 	
serum and liver cholesterolliver microsomesliver weight	 	 	
serum and liver cholesterolliver microsomesliver weight	 	 	
serum and liver cholesterolliver microsomesliver weight		 	
serum and liver cholesterolliver microsomesliver weight serum and liver cholesterolliver microsomesliver weight	 	 	
serum and liver cholesterolliver microsomesliver weight	 	 	
neurotransmitter levels			
neurotransmitter levels	 	 	
neurotransmitter levels			
neurotransmitter levels			
neurotransmitter levels			
neurotransmitter levels			
uterine weight			
EROD and PROD activityliver weight (% body)			

Liver Weight/Hepatomegaly	Hepatobiliary
Immune organ weight	Immune System
Reproductive organ size/weight, male	Reproductive
Kidney weight	Urinary System
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Neurotransmitter levels	Nervous System
Neurotransmitter levels	Nervous System
Neurotransmitter levels	Nervous System

Neurotransmitter levels	Nervous System
Neurotransmitter levels	Nervous System

Neurotransmitter levels	Nervous System
Reproductive organ size/weight, female	Reproductive
Liver Enzyme Induction	Hepatobiliary

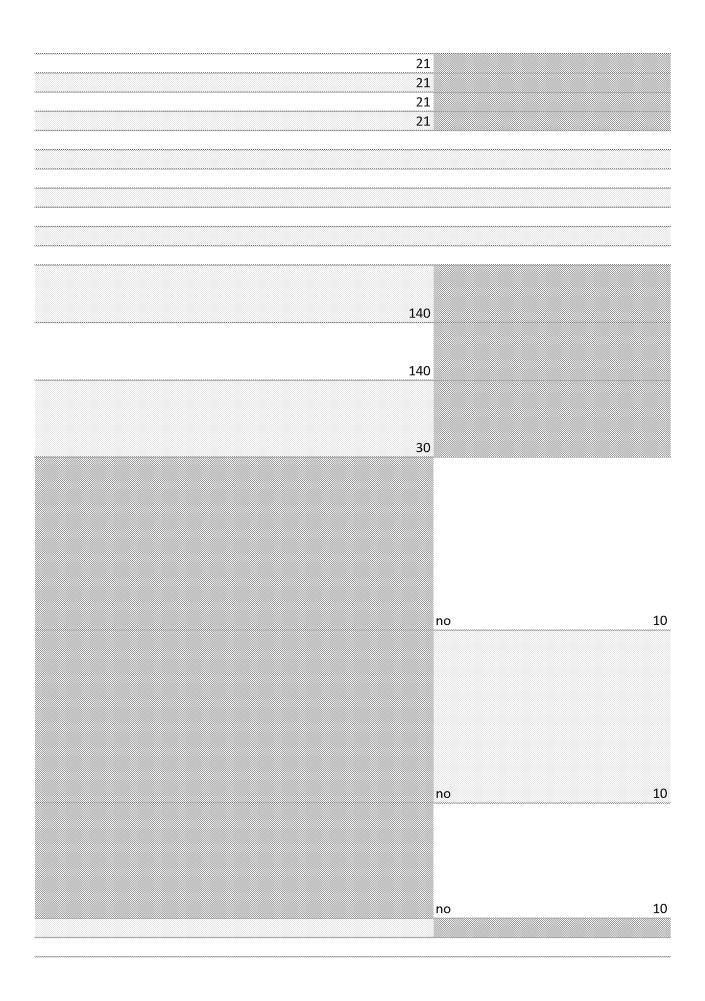
Aroclor 1254 Aroclor 1254	
Aroclor 1254	
PCBs	
Aroclor 1016	
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Aroclor 1254	
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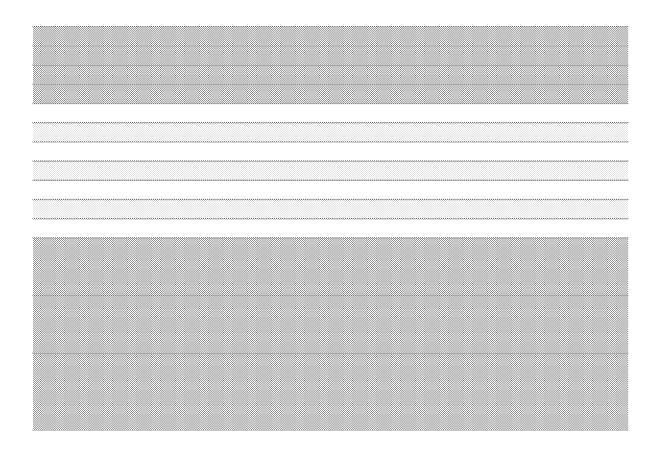
 Mouse	Oral-diet Oral-diet
Mouse	Oral-diet
Mouse	Oral-diet
Mouse	Oral-diet
Rat	Injection-ip
Rat	Injection-ip
Rat	Oral-diet
 Rat	Oral-diet
Pigtail monkey	Oral-cookie
 Pigtail monkey	Oral-cookie
 Rat	Oral-diet

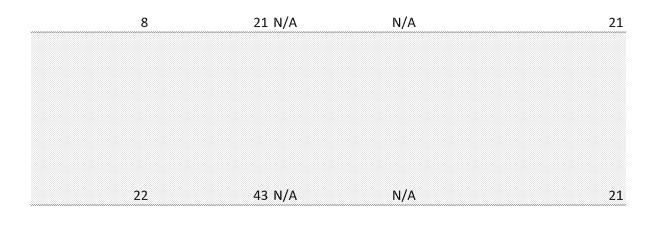
Rat	Oral-diet	
Rat	Oral-diet	

Rat	Oral-diet
	Injection-ip
Rat	Injection-ip

Primary Primary		105 105
Primary Primary		105 105
Primary	NR (4-6kg male)	
Primary	NR (4-6kg male)	
	-	
Primary	NR (250-300g male)	
. Timury	in (250 500g male)	
Secondary		
Secondary		
Secondary		
Primary		

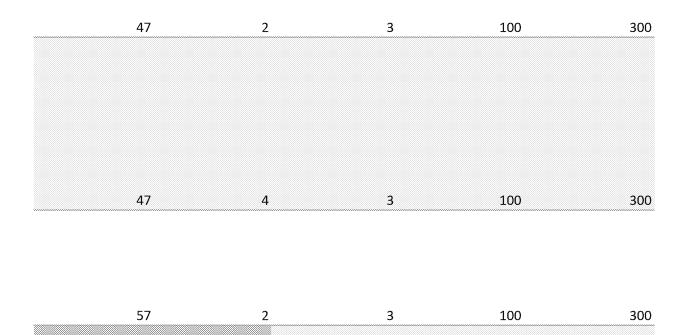






8	43 N/A	N/A	21

3	2.5	100
3	2.5	100
3	2.5	100
3	2.5	100
2	3.2	3.2
2	3.2	3.2
3	500	1000



	2.5	25	
			N/A N/A
			N/A
			N/A
N/A		3.2	
N/A		3.2	
NI/A		F00	
N/A		500	

N/A	100 N/A	
N/A	100 N/A	

N/A	100 N/A

Adult monkeys exposed for 2 hypothalamus following 20 v	20 or 66 wk. Decreased DA concentrations in the caudate nucleus, substantia nigra and vk of exposure.
Adult monkeys exposed for 2 nypothalamus following 20 v	20 or 66 wk. Decreased DA concentrations in the caudate nucleus, substantia nigra and vk of exposure.
Adult male rats exposed for a	30 d. Decreased DA, DOPAC and HVA in the caudate nucleus and decreased DOPAC and ract of male adult rats.
Pat dams ovnosod GD 9 21 .c	during lactation, or for the combined gestational and lactational periods. Offenring were
•	during lactation, or for the combined gestational and lactational periods. Offspring were 60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 an
sacrificed on PND 25, 35 and 60), caudate nucleus (days 2!	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days)
sacrificed on PND 25, 35 and 60), caudate nucleus (days 2!	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 an
sacrificed on PND 25, 35 and 60), caudate nucleus (days 2	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days)
sacrificed on PND 25, 35 and 60), caudate nucleus (days 2	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days)
sacrificed on PND 25, 35 and 60), caudate nucleus (days 2! caudate nucleus (day 60) foll	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 5 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.
sacrificed on PND 25, 35 and 60), caudate nucleus (days 25 caudate nucleus (day 60) foll Rat dams exposed GD 8-21, c	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 5 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.  Buring lactation, or for the combined gestational and lactational periods. Offspring were
sacrificed on PND 25, 35 and 60), caudate nucleus (days 25 caudate nucleus (day 60) foll Rat dams exposed GD 8-21, c sacrificed on PND 25, 35 and	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 5 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.
sacrificed on PND 25, 35 and 60), caudate nucleus (days 25 caudate nucleus (day 60) foll Rat dams exposed GD 8-21, c sacrificed on PND 25, 35 and 60), caudate nucleus (days 25	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.  during lactation, or for the combined gestational and lactational periods. Offspring were 60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60).
sacrificed on PND 25, 35 and 60), caudate nucleus (days 25 caudate nucleus (day 60) foll Rat dams exposed GD 8-21, c sacrificed on PND 25, 35 and 60), caudate nucleus (days 25	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.  during lactation, or for the combined gestational and lactational periods. Offspring were 60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) and NA (day 60) in females. In males, alterations in dopamine in the substantia
Rat dams exposed GD 8-21, of sacrificed on PND 25, 35 and 60), caudate nucleus (day 60) follows acrificed on PND 25, 35 and 60), caudate nucleus (days 25), caudate nucleus (acrificed on political caudate nucleus (days 25), caudate nucleus (acrifical caudate nucleu	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.  during lactation, or for the combined gestational and lactational periods. Offspring were 60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) and NA (day 60) in females. In males, alterations in dopamine in the substantia
sacrificed on PND 25, 35 and 60), caudate nucleus (days 25 caudate nucleus (day 60) follows (days 25, 35 and 60), caudate nucleus (days 25 nigra (at 60 days), caudate nucleus (days 25 nigra (at 60 days)), caudate nucle	60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) in females. In males, alterations in dopamine in the substantia nigra (at 60 days) owing gestational (GD8-21) exposure.  during lactation, or for the combined gestational and lactational periods. Offspring were 60. Litter size NR; use default. Alterations in dopamine in the substantia nigra (days 25 and 60) and NA (day 60) in females. In males, alterations in dopamine in the substantia ucleus (day 60) and nucleus accumbens (at 35 days) following lactational exposure.

18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
168	0.9	0.199	0.054	1	154
168	0.9	0.199	0.054	1	154
22	0.9	0.094	0.154	10	21

***************************************	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

0.094

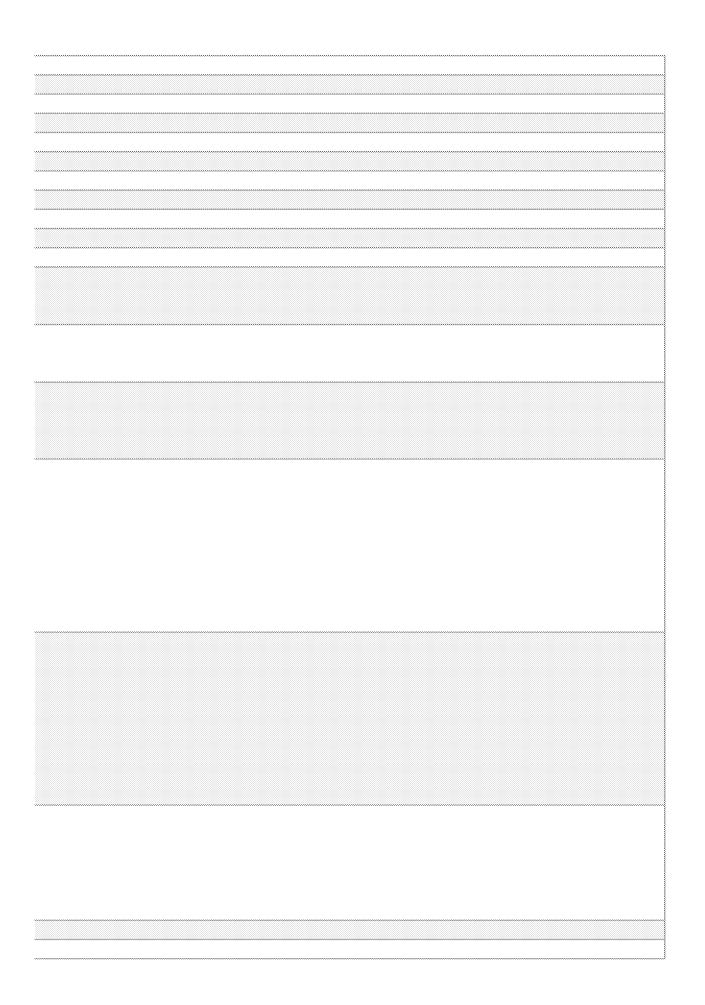
0.154

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Soontornchat et al.	1994	1411900
Mccoy et al.	1995	1412385
Mccoy et al.	1995	1412385
messy et al.		1,12,000
Mccoy et al.	1995	1412385
weedy et al.	1333	1,12303
Mccoy et al.	1995	1412385
Vrecl et al.	1995	1412430
Vrecl et al.	1995	1412430
Vrecl et al.	1995	1412430
Smith et al.	1995	1412729
Smith et al.	1995	1412729
Smith et al.	1995	1412729
Smith et al.	1995	1412729
Murugasan et al	2007	1412740
Murugesan et al.	2007	1412/40
Voltura and French	2007	1413098
	2007	_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

EROD and PROD activityliver weight (% body)						
litter size, percentage survival to weaning (F1)						
mean birth weight, weaning weight in offspring (F1)						
litters born per month, offspring born per month, lit	ter size (F1)					
needs som per monen, on spring som per monen, ne	(1 1)					
time to first litter, fertile pairs (F1)						
litter size						
maternal liver histopathologymaternal and fetal rela	ative liver we	ght, matern	al absolute	liver volum	е	
maternal liver histopathologymaternal and fetal rela	ative liver wei	ght, matern	al absolute	liver volum	e	
mitotic rate (polyploidy)histopath of centrilobular he	epatocytesliv	er weights, l	iver as % bo	odv weightl	nepatic uro	
mitotic rate (polyploidy)histopath of centrilobular he	******************************		************	***********************	**************	porphyring
mitotic rate (polyploidy)histopath of centrilobular ho						************************
into de rate (por prota y finato patri or certa nobalar in					***************************************	oorphyring
mitatic rate (nalyplaidy)histopath of contribabular he	epatocytesliv	er weights, l	iver as % bo	ody weightl	nepatic uro	oorphyring oorphyring
mitotic rate (polyploidy)histopath of centrilobular ho	epatocytesliv	er weights, l	iver as % bo	ody weightl	nepatic uro	oorphyring oorphyring
	epatocytesliv	er weights, l	iver as % bo	ody weightl	nepatic uro	oorphyring oorphyring
serum LH, FSH, testosterone and estradiol	epatocytesliv	er weights, l	iver as % bo	ody weightl	nepatic uro	oorphyring oorphyring
	epatocytesliv	er weights, l	iver as % bo	ody weightl	nepatic uro	oorphyring oorphyring

Liver Weight/Hepatomegal	atobiliarv

Offspring mortality	Developmental
Weight and size (early life)	Developmental

Pregnancy/conception rate	Reproductive	
Time-to-pregnancy and couple fertility	Reproductive	
Pregnancy/conception rate	Reproductive	
Liver Histopathology	Hepatobiliary	
Liver Weight/Hepatomegaly	Hepatobiliary	
Liver Cell Proliferation	Hepatobiliary	
Liver Histopathology	Hepatobiliary	
Liver Weight/Hepatomegaly	Hepatobiliary	
Porphyrins	Hepatobiliary	
Sex hormone levels, male	Reproductive	
Sex hormone levels, male	Reproductive	

roclor 1254			
100001 1254			

Aroclor 1242

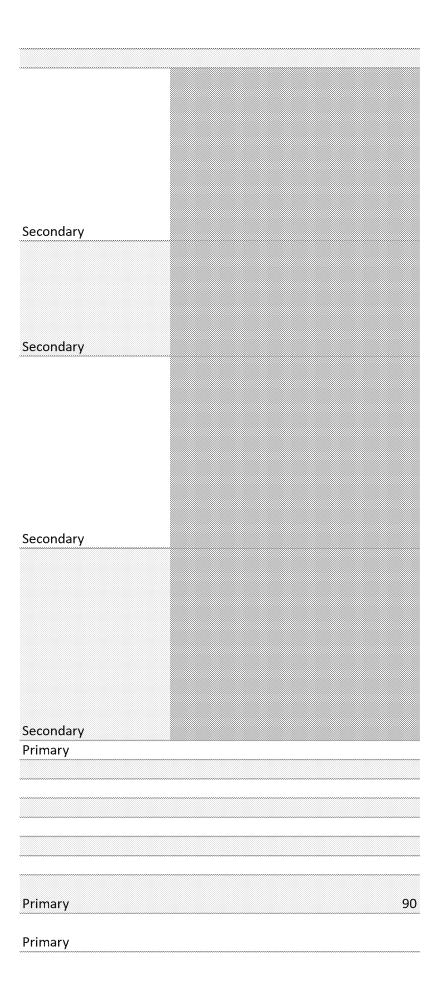
Aroclor 1254

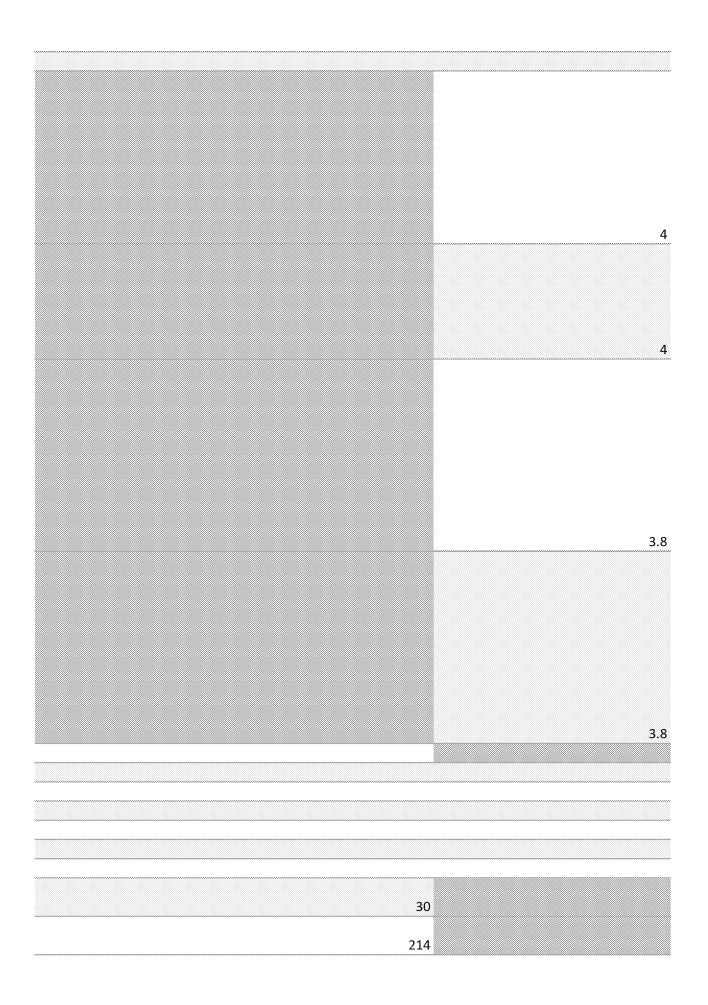
Mixture: Aroclors 1242, 1254

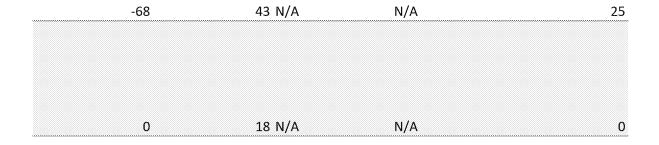
Aroclor 1254							
Aroclor 1254 Pyralene 3000							
Pyralene 3000							
Pyralene 3000 Pyralene 3000 Pyralene 3000							
Pyralene 3000 Pyralene 3000							
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Pyralene 3000 Pyralene 3000 Pyralene 3000 Aroclor 1254 Aroclor 1254							

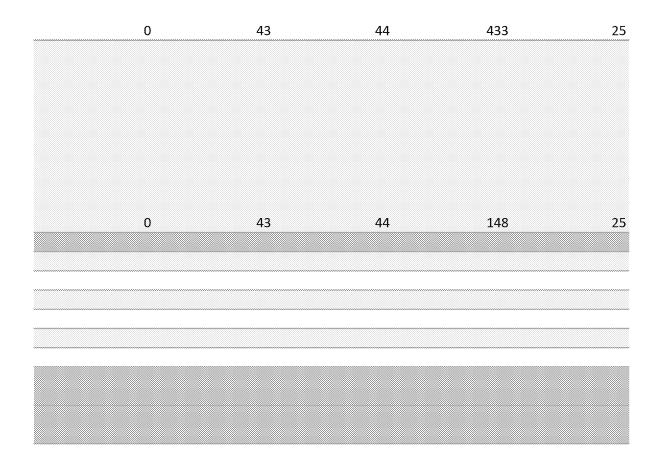
 Mouse	 Oral-diet	
N/	0-1-1:	
Mouse	Oral-diet	

	Mouse	Oral-diet
	Mouse	Oral-diet
	Rat	Injection-ip
	Rat	Injection-ip
•••••	Rat	Injection-ip
	Mouse	Oral-diet
***************************************	Mouse	Oral-diet
	Mouse	Oral-diet
***************************************	Mouse	Oral-diet
	Rat	Injection-ip
	Mouse	Oral-diet
***************************************		

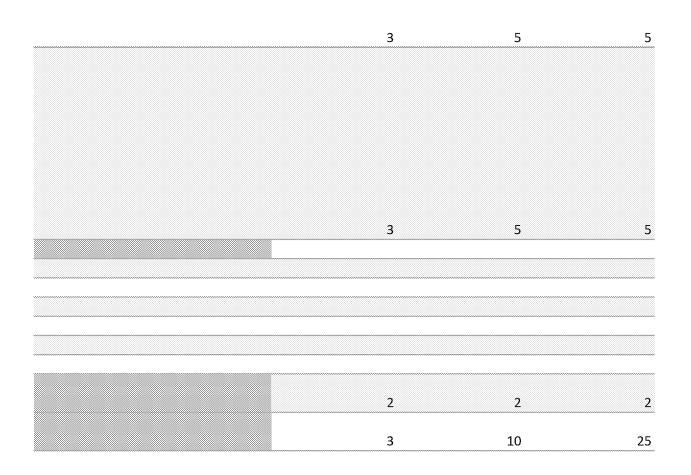








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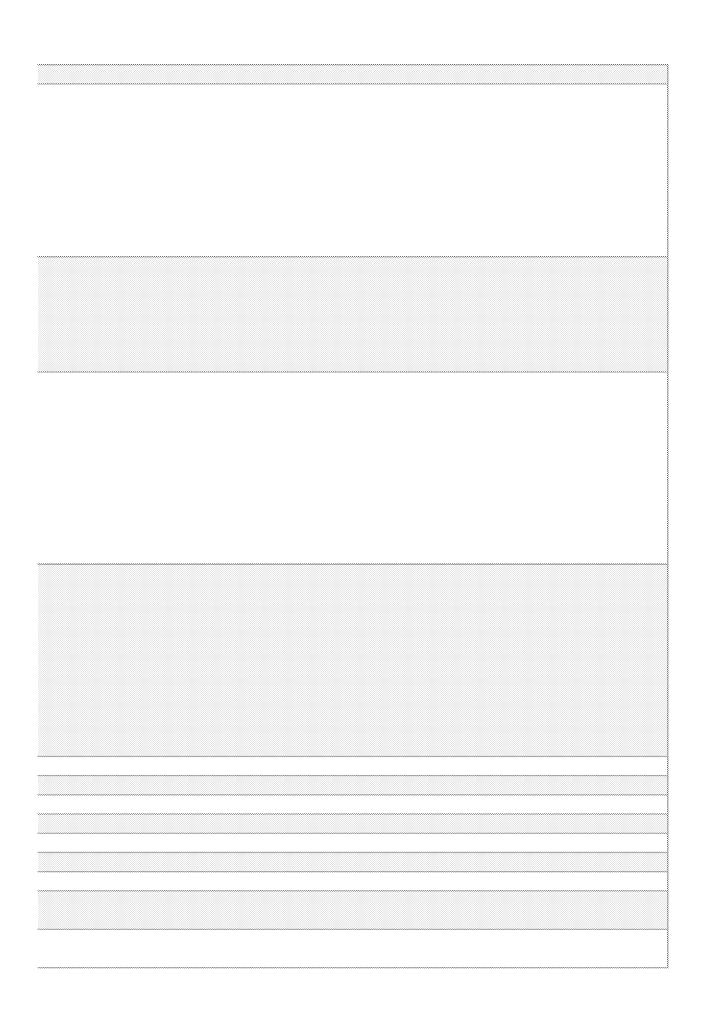


N/A	5 N/A	
N/A	5 N/A	

N/A	5	5
11/4	F	F
N/A	5	5
N/A	2	

 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21

 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21



Yilmaz et al.	2006	1413769
Wu et al.	1999	1414675
Wu et al.	1999	1414675

Chung and Clemens	1999	1414725
Chung and Clemens	1999	1414725

Pruitt et al.	1999	1414981		
Aulerich et al.	2000	1415228		
Gupta	2000	1415296		
Gupta	2000	1415296		

serum alkaline phosp	ohatase				
liver P450 enzyme in	duction (EROD, PROD,	and BROD)liver wei	ght		
liver P450 enzyme in	duction (EROD, PROD,	and BROD)liver wei	ght		
female sexual behav	ior (lordosis quotient,	percentages of mou	nt leave and int	romission leave): pa	acing test (approach
	latency, postejaculato				rem 8 rees (approue)
,,	,, р,	, , p	-1		
£	: ((				-:
	ior (lordosis quotient,			tromission leave); pa	icing test (approach
latency, intromission	latency, postejaculato	ory retractory period	<u> </u>		
histological/morphol	logical changes in hipp	ocampal mossy fibe	rs		
baculum (os-penis) le	ength and mass				
litter size					
prostate histopathol	ogv				
	didymis weight, testis v	weight			
1	,				
litter size					
litter size	O.W.				
prostate histopathol	ogy didymis weight, testis v	درمان الماري			

Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

Sexual behavior	Nervous System			
Sexual behavior	Nervous System			

Brain-histological, structural, morphological	Nervous System
Reproductive organ size/weight, male	Reproductive

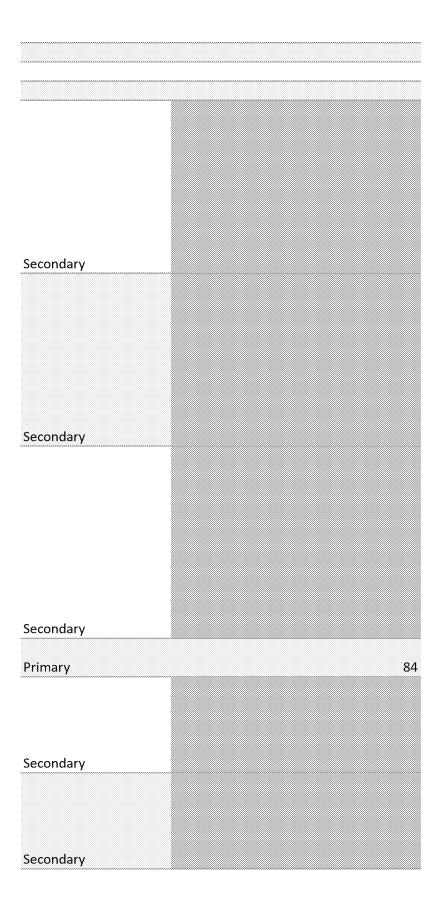
Pregnancy/conception rate	Reproductive		
Reproductive organ histopathology, male	Reproductive		

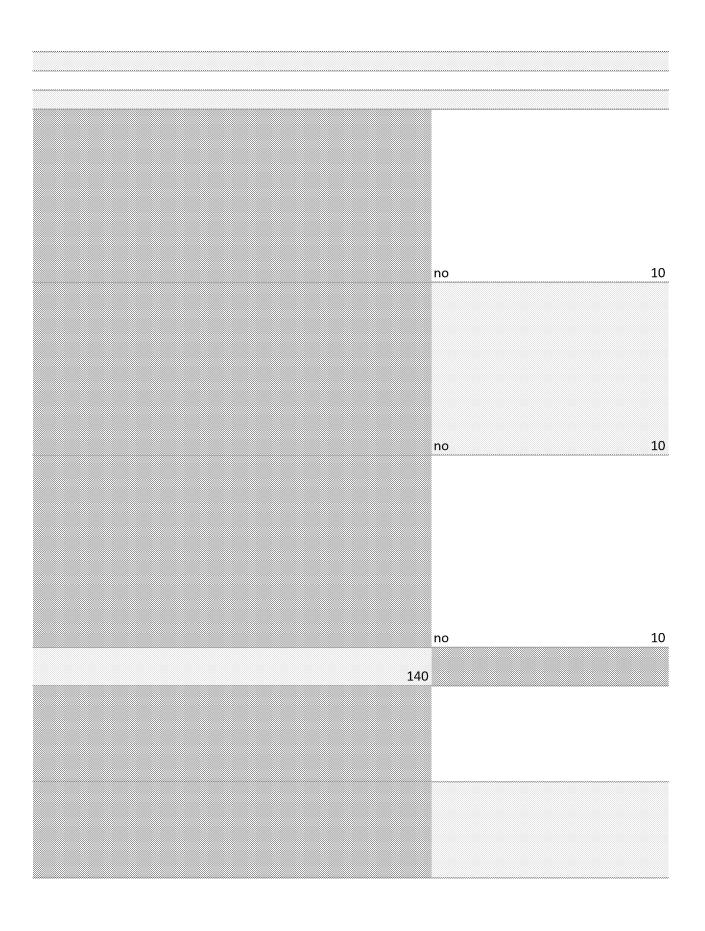
Aroclor 1221Arocloi	r <b>1254</b>	 			
Aroclor 1254	***************************************	 	 	 	30000
Aroclor 1254					
Aroclor 1221					
Aroclor 1254		 	 	 	
Aroclor 1254					
A 1 1254					
Aroclor 1254					
Aroclor 1016					
		 			••••
Aroclor 1016					

7.0.77	Injection-CHECK
Mouse	Injection-ip
Mouse	Injection-ip

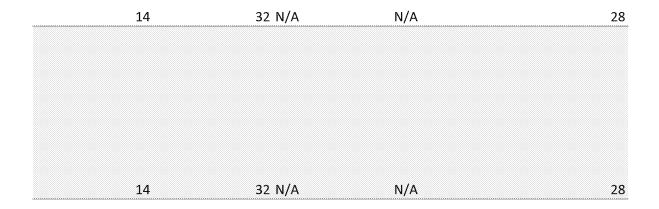
Rat	Injection-ip
Rat	Injection-ip

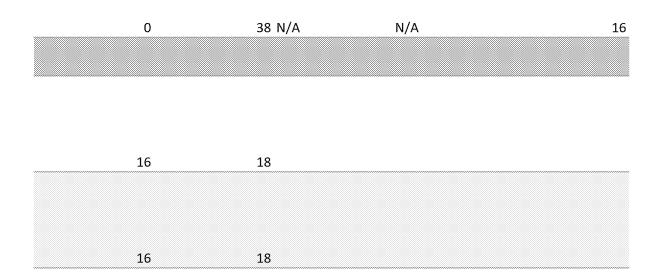
Mink	Oral-diet Oral-diet
Mouse	Oral-CHECK
Mouse	Oral-CHECK

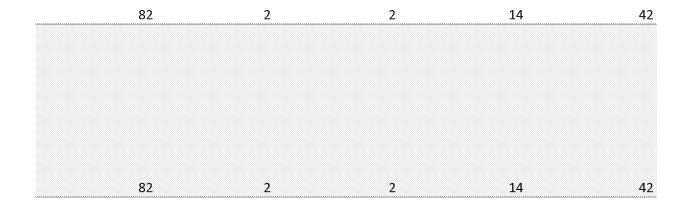








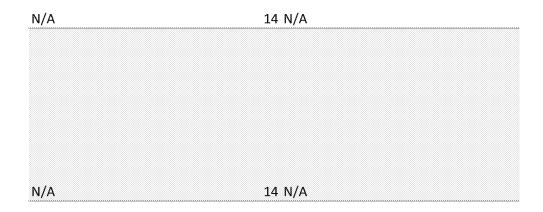




38	2	3	125	125
		3	2	2

2	0.05	0.05
2	0.05	0.05





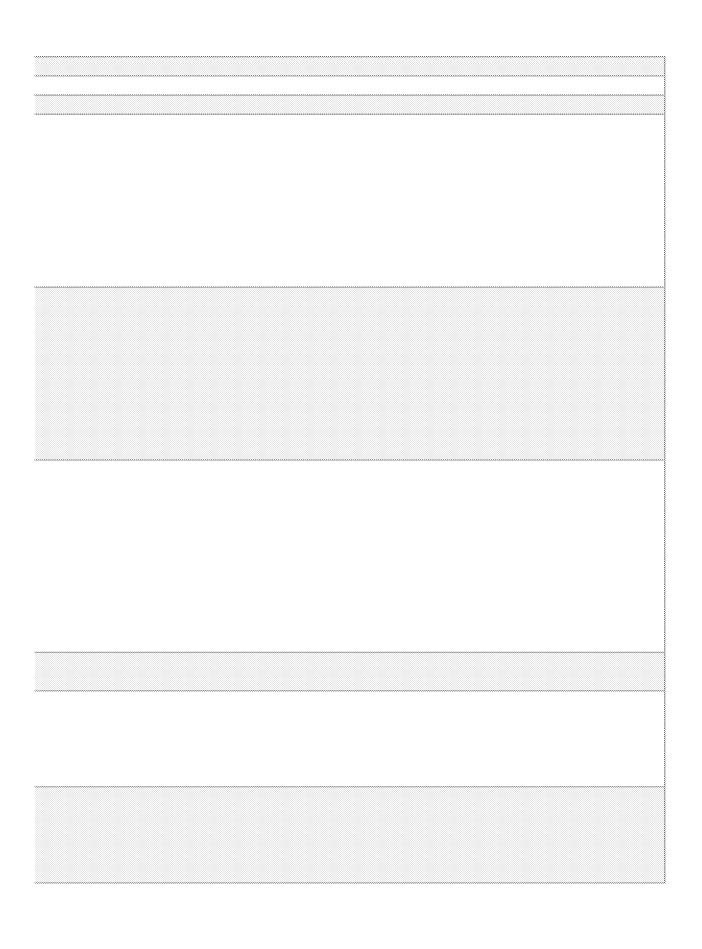
N/A		125 N/A		
	2 N/A		N/A	

Rat dams dosed from GD 14 to PND 10; pups weaned at PND 28. Authors report injection concentrations of 3.33 and 10
mg/mL and estimate doses of 14 and 42 mg/kg. Sexual behavior evaluated after PND 60. Litter size NR; use default.
Rat dams dosed from GD 14 to PND 10; pups weaned at PND 28. Authors report injection concentrations of 3.33 and 10
mg/mL and estimate doses of 14 and 42 mg/kg. Sexual behavior evaluated after PND 60. Litter size NR; use default.
Dams exposed from mating until pups were weaned at PND 28. Weaned pups were continued on their pre-weaning
diets, thus exposure to PCB was from conception to termination at PND 16, 30, or 60 in all PCB groups. Litter size NR;
use default. PCB-exposed rats are often underweight, therefore Aroclor 1254 litters were culled to eight pups on PND 3, whereas control litters were left at full size to control for weight differences. Decrease in mossy fiber size at PND 16, 30,
and 60.

22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21

22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21

 22	0.9	0.094	0.154	10	21
 52	0.9	0.312	0.066	5	56
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21



Gunto	2000	1415296
Gupta	2000	
Blake et al.	2000	1415334
Blake et al.	2000	1415334
Dielo es al	2000	1415224
Blake et al.	2000	1415334
Blake et al.	2000	1415334
Blake et al.	2000	1415334
Blake et al.	2000	1415334
District of		
Blake et al.	2000	1415334
Blake et al.	2000	1415334
Blake et al. Blake et al.	2000 2000	1415334 1415334
Blake et al.	2000	1415334
Bryce et al.	2000	1415629
Geller et al.	2001	1415790

litter size
prostate histopathology
prostate weight, epididymis weight, testis weight
heart histopathology
heart weight
adrenal histopathology
auterial instopatifology
adrenal weight
spleen histopathology
spleen weight
estrual smears were taken daily at approximately the same time for 25 days
organs were collected, weighed, fixed, embedded, sectioned, and stained for histological evaluations
organs were collected, weighed, fixed, embedded, sectioned, and stained for histological evaluations
kidney histopathology
kidney weight
menses frequency, duration, and cycle length
operant conditioning

Reproductive organ size/weight, male	Reproductive
Cardiovascular histopathology	Cardiovascular
Heart weight	Cardiovascular
Adrenal histopathology	Endocrine
Adrenal weight	Endocrine
Immune organ histopathology	Immune System
Immune organ weight	Immune System
Estrous/menstrual cycle characteristics	Reproductive
Reproductive organ histopathology, female	Reproductive
Reproductive organ size/weight, female Kidney histopathology	Reproductive Urinary System
Kidney weight	Urinary System
Estrous/menstrual cycle characteristics	Reproductive
Cognitive function	Nervous System

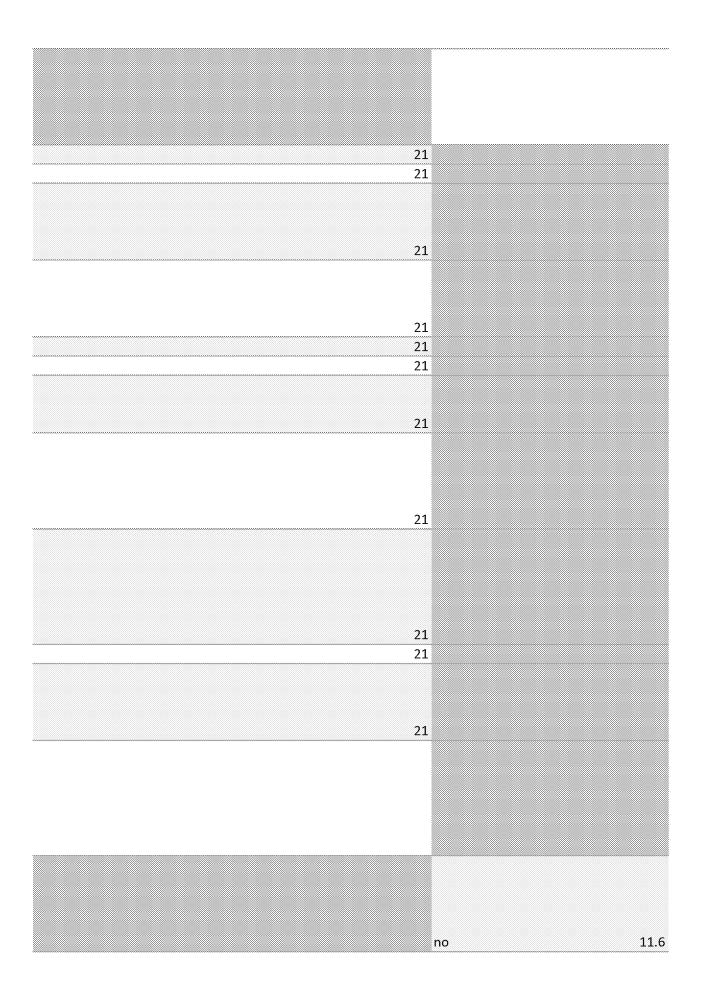
Aroclor 1016	
Aroclor 1254 Aroclor 1254	
A100101 1254	
Aroclor 1254	
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Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
7.1.00101. 1220.1	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
7.11 OCIOI 1234	
Aroclor 1254	

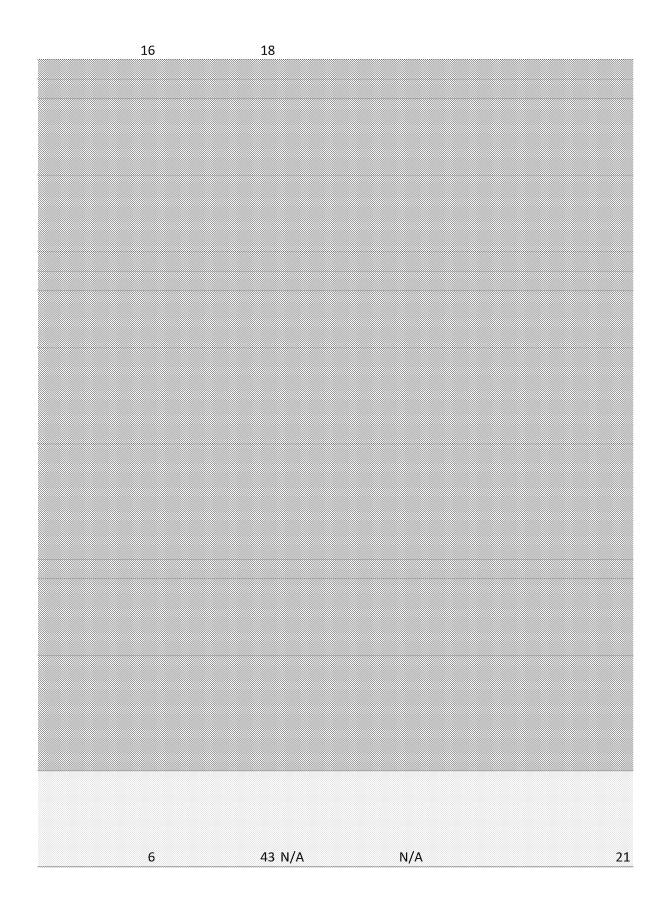
	Mouse	Oral-CHECK	
	Rat	Injection-im	
000000000000000000000000000000000000000	Rat	Injection-im	
	Rat	Injection-im	
	Det	lui a ski a u iva	
	Rat	Injection-im	
	Rat Rat	Injection-im	
	Nat	Injection-im	
	Rat	Injection-im	
	Rat	Injection-im	
***************************************	Rat	Injection-im	
	Rat	Injection-im	
	Rat	Injection im	
	Nat	Injection-im	
	Rhesus monkey	Oral-capsule	
	_		
	Rat	Oral-gavage	

Secondary	
Primary	NR (270-300 g female)
Primary	NR (270-300 g female)
Primary	NR (270-300 g female)

Primary	NR (270-300 g female)
Primary	NR (270-300 g female)
Primary	NR (270-300 g female)
Primary	NR (270-300 g female; assume 120 d)

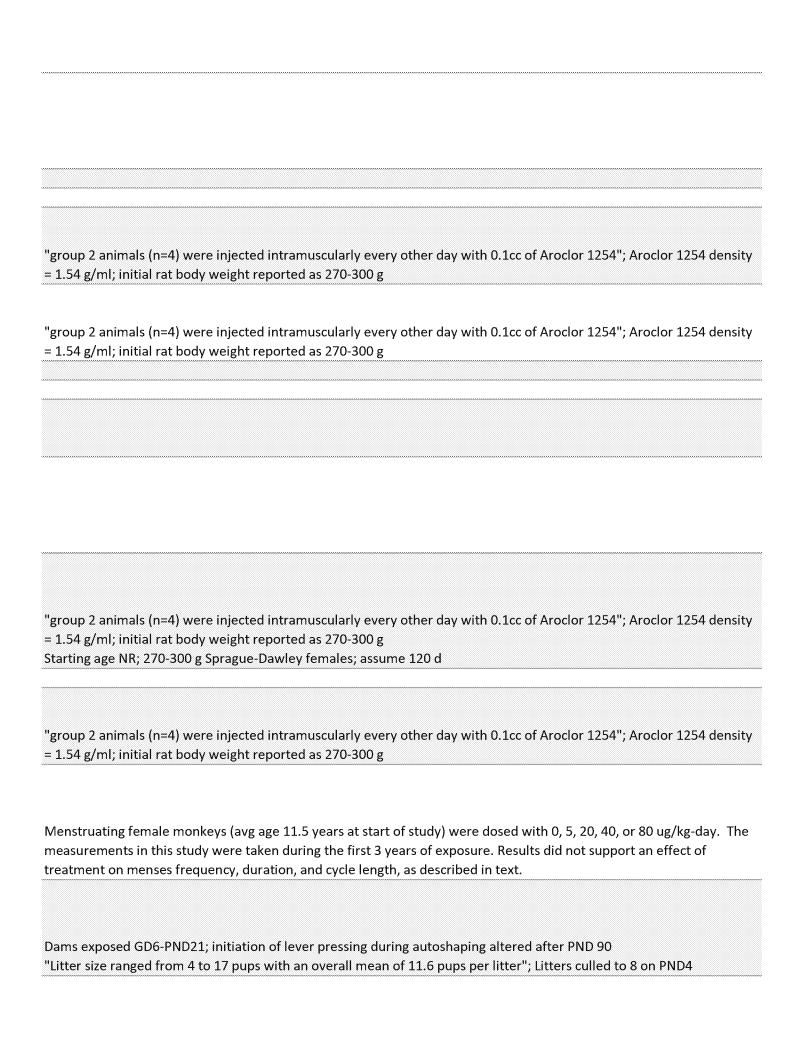
Primary	NR (270-300 g female; assume 120 d)
Primary	120
Primary	NR (270-300 g female)
Primary	NR (270-300 g female)



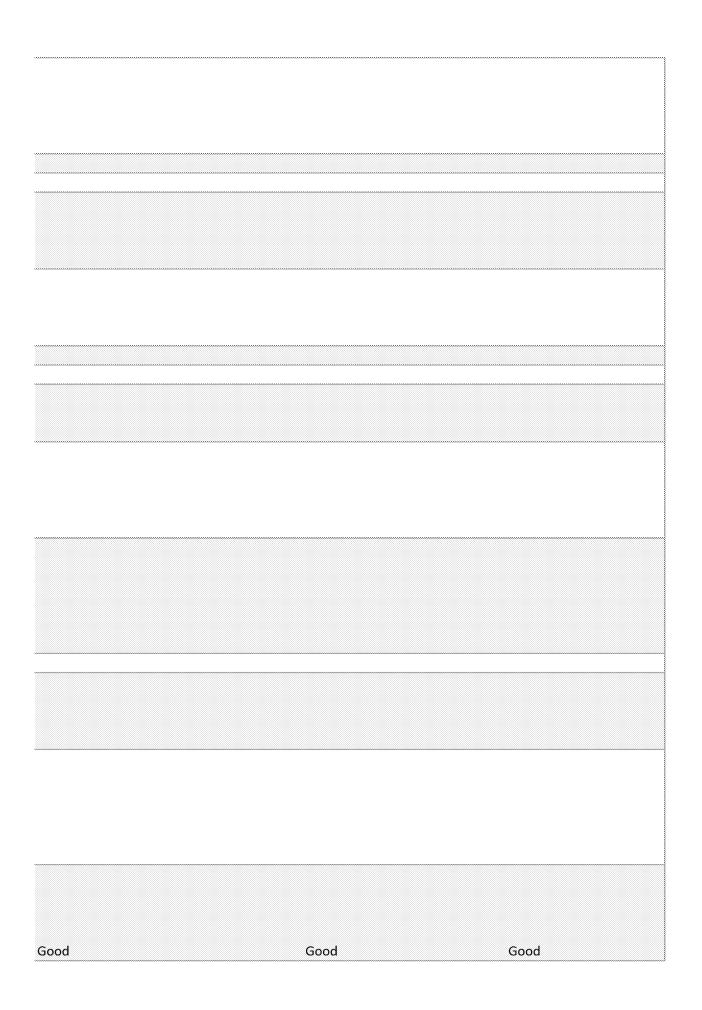


	2	0.05	0.05
	2	285	285
	2	285	285
	2	285	285
	3	205	205
	2	285	285
	2	285	285
	2	285	285
	2	285	285
	2	285	285
	_	0.05	225
	2	285	285
	2	285	285
	2	285	285
112	· ·	1	,
112 2	2	1	6

		N/A
		N/A
N/A	205	
N/A	285	
N/A	285	
		N/A
		N/A
		N/A
		21/2
		N/A
N/A	285	21/2
		N/A
N/A	285	
		N/A
	2000	
N/A	1 N/A	



18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 	0.5	0.031	0.13 /	10	<u></u>
22	0.0	0.004	0.154	10	21
 22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21
<i></i>	0.5	0.054	0.154	10	21
22	0.9	0.094	0.154	10	21
 168	0.9	0.199	0.054	1	154
22	0.9	0.094	0.154	10	21



Geller et al.	2001	1415790
Ceccatelli et al.	2006	1415838
Ceccatelli et al.	2006	1415838
Ceccatelli et al.	2006	1415838
Ceccatelli et al.	2006	1415838
Murugesan et al.	2005	1416186
Sharlin et al.	2006	1416310
Sugawara et al.	2006	1416422
Sugawara et al.	2006	1416422
Sugawara et al.	2006	1416422
Sugawara et al.	2006	1416422
Sugawara et al.	2006	1416422
Sugawara et al.	2006	1416422
Sugawara et al. Sugawara et al.	2006 2006	1416422 1416422

visual thresholds, electroretinography			
visual till estisias, ciectio ettilography			
maternal weight gain			
timing of vaginal opening			
uterine and ovarian weights			
liver weight, relative liver weight			
serum LH, testosterone, prolactin, and estradiol		 	 
maternal weight gain			
pinna detachment, hair growth, day of eye opening		 	
number of pups, offspring survival			
body weight			
incisor eruption			
open-field test, spontaneous locomotion activity		 	 
grasp reflex, righting reflex, walking, negative geotaxis, cliff av	oidance		
Marris water mayo test			
Morris water maze test open-field test			

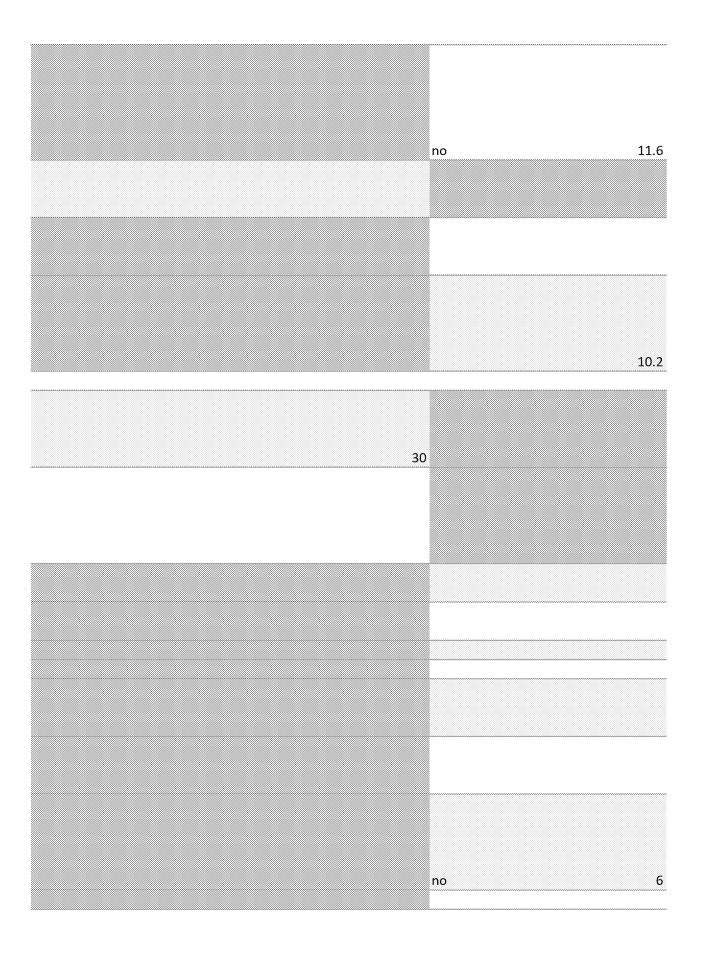
Sensory function	Nervous System
Maternal weight gain	Reproductive
Pubertal development, female	Reproductive
Reproductive organ size/weight, female	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Sex hormone levels, male	Reproductive
Maternal weight gain	Reproductive
Developmental milestones	Developmental
Offspring mortality	Developmental
Weight and size (early life)	
Dental effects	Developmental
	Developmental Musculoskeletal
Activity level	
	Musculoskeletal  Nervous System
Activity level  Motor function	Musculoskeletal
	Musculoskeletal  Nervous System
	Musculoskeletal  Nervous System
	Musculoskeletal  Nervous System

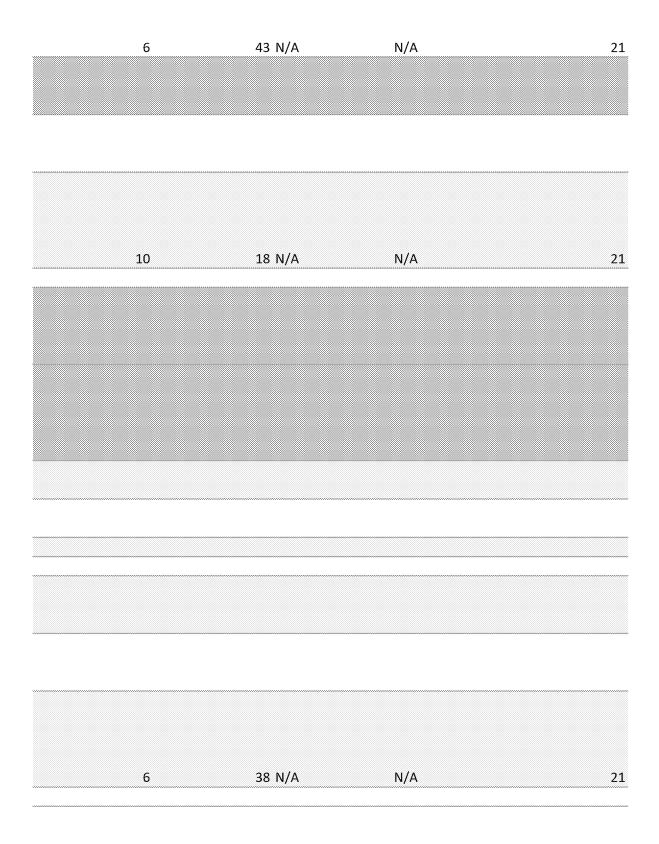
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254 Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
41 UCIUI 1234	
4100001 1234	
410UUI 1254	
Aroclor 1254	

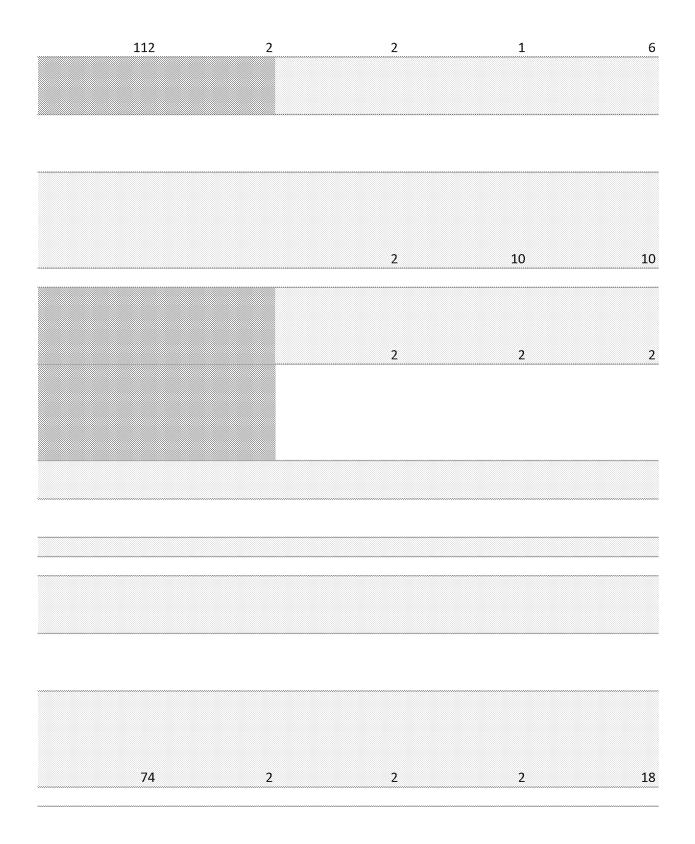
 Rat	Oral-gavage
Rat	Injection-sc
Rat	Injection-sc
Rat Rat	Injection-sc Injection-sc
nat	IIIJection-3c
 Rat	Injection-ip
Rat	Oral-diet
Rat Mouse	Oral-diet Oral-gavage
Mouse Mouse Mouse	Oral-gavage Oral-gavage Oral-gavage
Mouse Mouse	Oral-gavage Oral-gavage
Mouse Mouse Mouse	Oral-gavage Oral-gavage Oral-gavage
Mouse Mouse Mouse	Oral-gavage Oral-gavage Oral-gavage
Mouse Mouse Mouse Mouse	Oral-gavage Oral-gavage Oral-gavage Oral-gavage

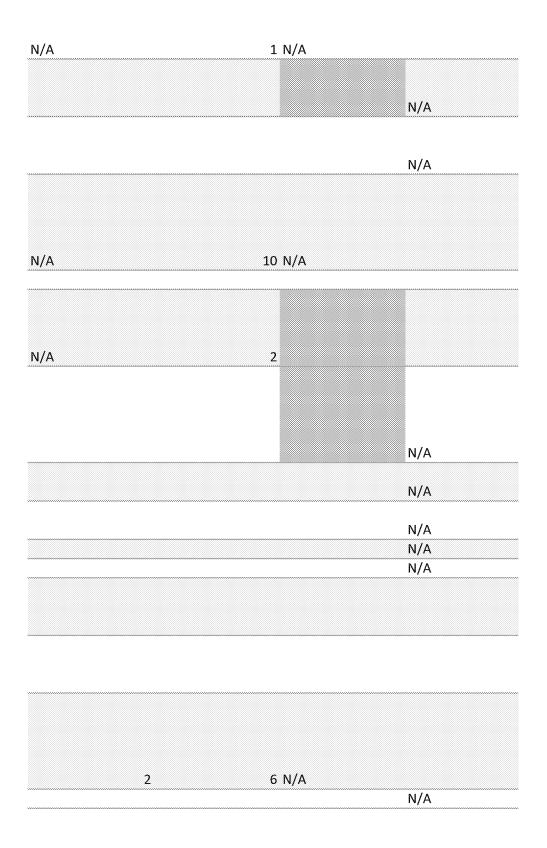
Secondary		
Primary		
Secondary		
Secondary		
Primary		90

Primary	
Secondary	
Secondary	
Secondary	









Dams exposed GD6-PND21: mean proportion of visual s	timuli detected at various intensities altered after PND 90
"Litter size ranged from 4 to 17 pups with an overall me	
Rat dams were injected with 10 mg/kg-day from GD 10 body weight gain during gestation (Table 3).	- GD 18 (nine injections). There was no effect on F0 maternal
Rat dams were dosed injected with 10 mg/kg-day from timing of vaginal opening in F1 females (Table 3)	GD 10 - GD 18 (nine injections). There was no effect on the
	- GD 18 (nine injections). Litter size of LOAEL dose group was DAEL is based on significant decrease in absolute uterine weight
	ip for 30 days. LOAEL based on significantly decreased serum
Rat dams were dosed with 0 or 5 mg/kg-day from GD 7	fter the last injection (Figure 3). - PND 15. Default gestation length used when calcuating dosing
Rat dams were dosed with 0 or 5 mg/kg-day from GD 7 duration. There was no effect on maternal body weight	fter the last injection (Figure 3).
Rat dams were dosed with 0 or 5 mg/kg-day from GD 7 duration. There was no effect on maternal body weight	fter the last injection (Figure 3) PND 15. Default gestation length used when calcuating dosing
Rat dams were dosed with 0 or 5 mg/kg-day from GD 7 duration. There was no effect on maternal body weight	fter the last injection (Figure 3). - PND 15. Default gestation length used when calcuating dosing
·	fter the last injection (Figure 3). - PND 15. Default gestation length used when calcuating dosing
Rat dams were dosed with 0 or 5 mg/kg-day from GD 7 duration. There was no effect on maternal body weight	fter the last injection (Figure 3). - PND 15. Default gestation length used when calcuating dosing

 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
 18 18	0.9 0.9	0.229 0.229	0.264 0.264	6	21
 18	0.9	0.229	0.264	6 6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21

Good	Good	Good
Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient)	Good	Good
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)		
Not reported (interpreted as Deficient) Not reported (interpreted as Deficient) Not reported (interpreted as Deficient)	Good Good	Good Good
Not reported (interpreted as Deficient)  Not reported (interpreted as Deficient)	Good Good Good	Good Good Good
Not reported (interpreted as Deficient)	Good Good Good Good	Good Good Good Good

Sugawara et al.	2006	1416422
Chung et al.	2001	1416578
Chung et al.	2001	1416578
Chung et al.	2001	1416578
Chung et al. Chung et al.	2001 2001	1416578 1416578
Chung et al. Kutlu et al. Kutlu et al.	2001 2007 2007	1416578 1416637 1416637

maternal body weight during gestation and lactation  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
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female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)  female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests) female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests) female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests) female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests) female sexual behavior (lordosis, pacing tests)	
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female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)	
female sexual behavior (lordosis, pacing tests)	
estrous cyclicity	
actrous qualisity.	
estrous cyclicity	
liver enzyme activityliver histopathology	
liver enzyme activityliver histopathology	

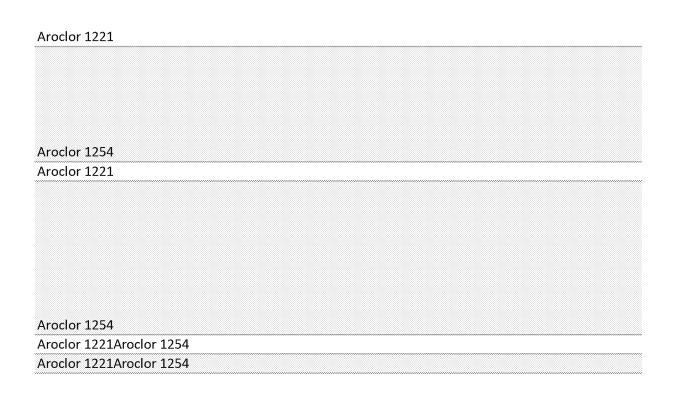
Maternal weight gain	Reproductive

Sexual behavior	Nervous System		
Sexual behavior	Nervous System		

Sexual behavior	Nervous System
Sexual behavior	Nervous System
Estrous/menstrual cycle characteristics	Reproductive
Estrous/menstrual cycle characteristics	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary



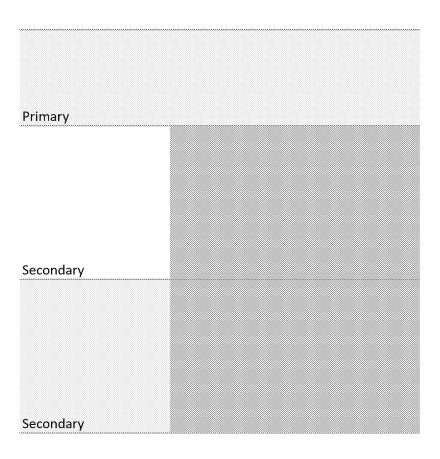


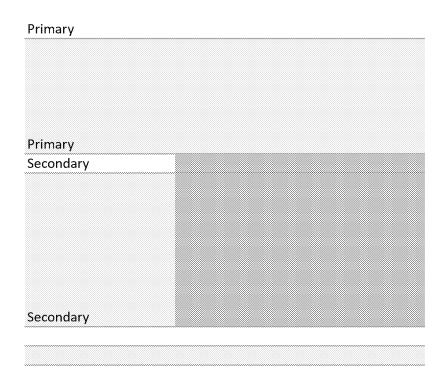


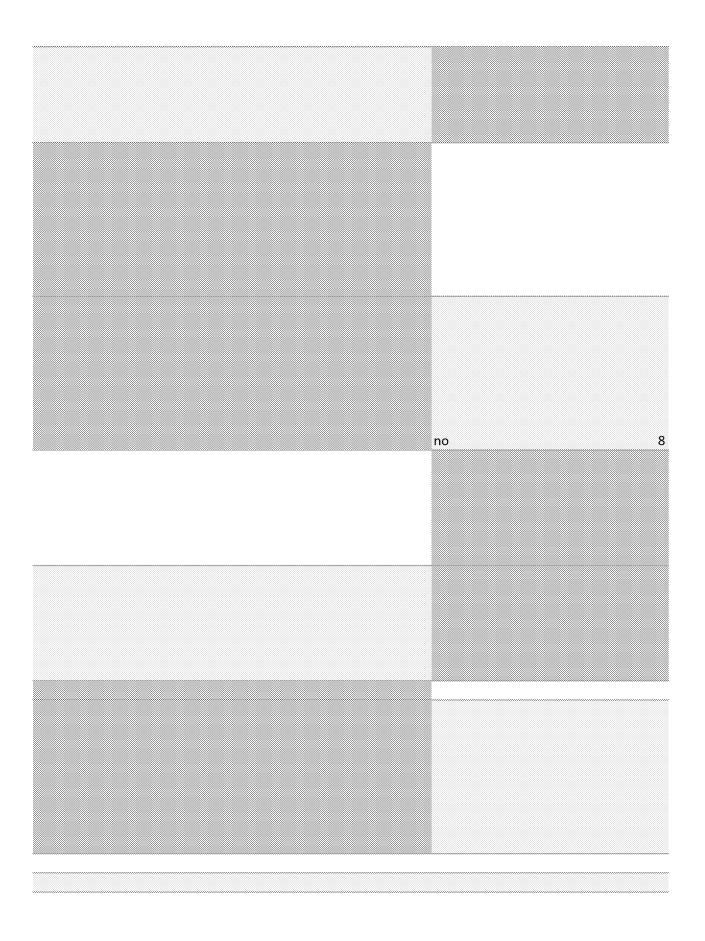
Mouse Oral-gavage
10101076 7.1141-547456
Mouse Oral-gavage

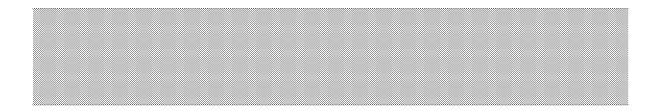
Rat	Injection-ip	
ъ.	, . ,	
Rat	Injection-ip	

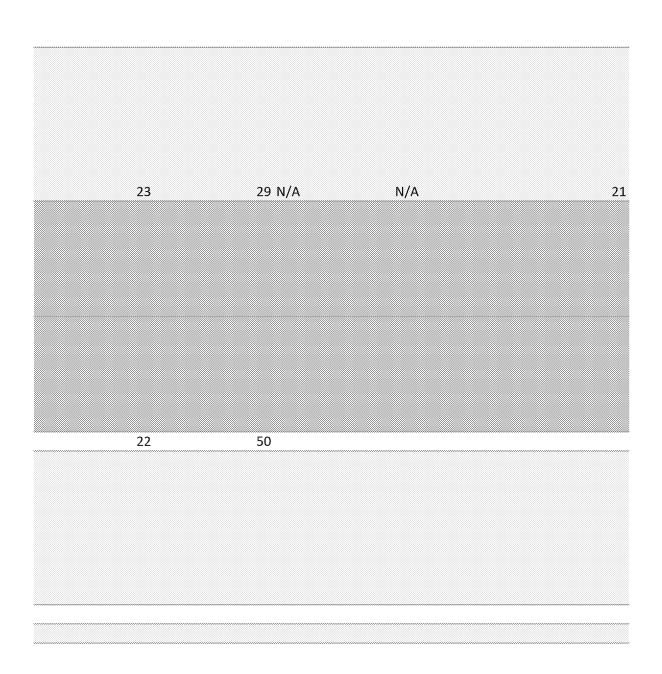
Rat	Injection-ip	
Rat	Injection-ip Injection-ip	
Rat	Injection-ip	
Rat	Injection-ip	
Rat	Injection-sc	•••••
Rat	Injection-sc	



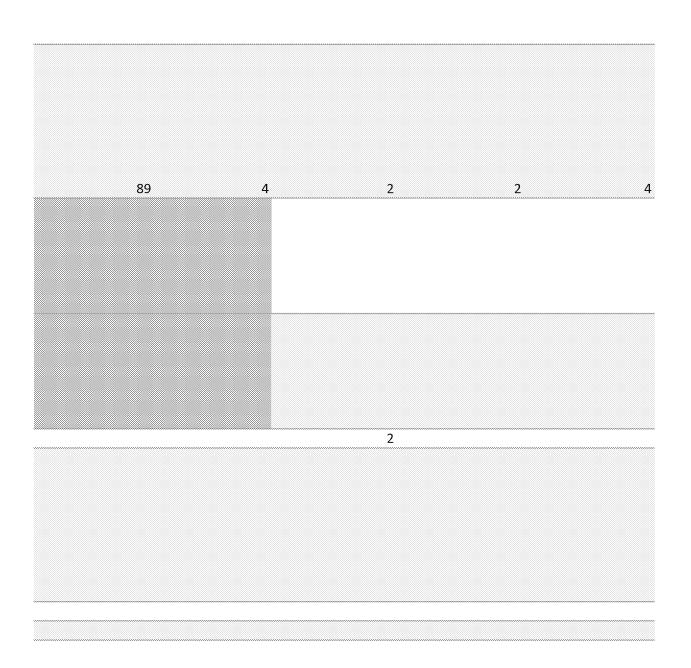


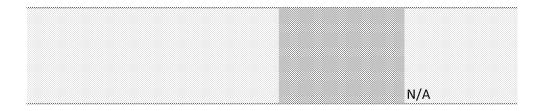


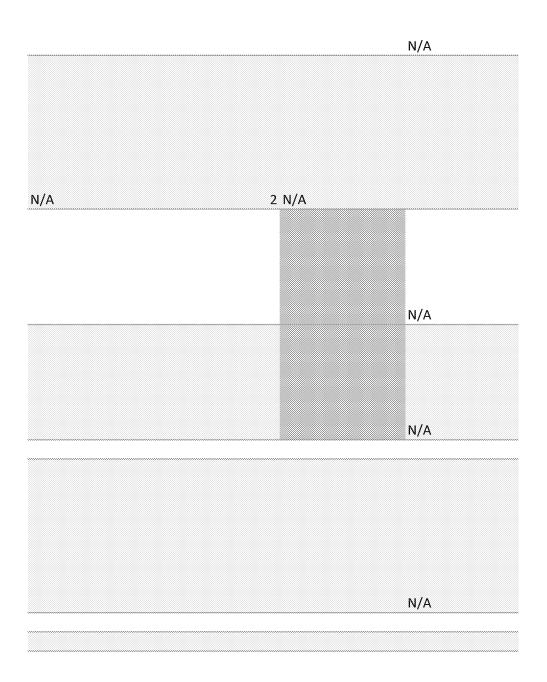










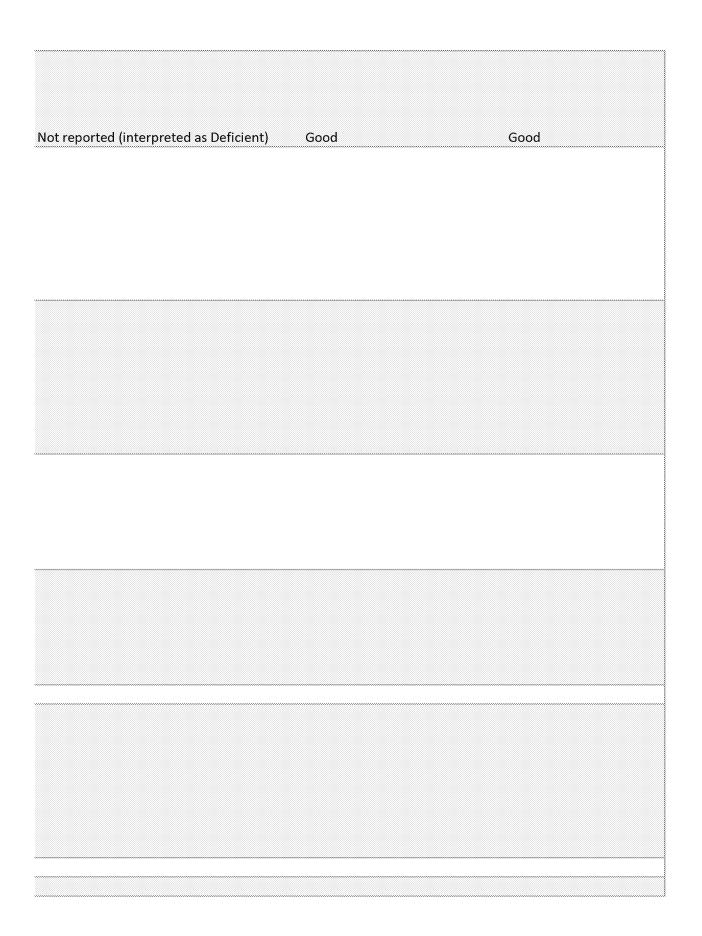


Pregnant mice were dosed with 0, 6, 18, or 54 mg/kg every 3 days by gavage from GD 6 - PND 20. Text states that there was no effect on maternal body weight during gestation and lactation. Starting age reported as "female at sexual maturity"; assume 50 d. Rat dams were injected ip with 2.5 or 5 mg PCBs (total administered dose) over 7 d (PND 1-7). Doses of 2 and 4 mg/kg-d calculated using subchronic reference value for body weight (0.179 kg female) provided for Long-Evans rats in EPA 1988. Litter size was reduced to 8 at PND 1. Pups were weaned at PND 28. "Neonatal treatment with A1221 did not have any significant effects on female sexual behavior." Rat dams were injected ip with 2.5 or 5 mg PCBs (total administered dose) over 7 d (PND 1-7). Doses of 2 and 4 mg/kg-d calculated using subchronic reference value for body weight (0.179 kg female) provided for Long-Evans rats in EPA 1988. Litter size was reduced to 8 at PND 1. Pups were weaned at PND 28. Alterations in lordosis quotient (both pacing and nonpacing) and intromission return latency measured after PND 67. Adult female rats (60 d of age) were injected ip with 2.5 or 5 mg PCBs (total administered dose) over 7 d. Doses of 2 and 4 mg/kg-d calculated using subchronic reference value for body weight (0.179 kg female) provided for Long-Evans rats in EPA 1988. No effects on female sexual behavior were observed. Adult female rats (60 d of age) were injected ip with 2.5 or 5 mg PCBs (total administered dose) over 7 d. Doses of 2 and 4 mg/kg-d calculated using subchronic reference value for body weight (0.179 kg female) provided for Long-Evans rats in EPA 1988. No effects on female sexual behavior were observed. 0, 2.5, 5 mg/day Rat dams were injected ip with 2.5 or 5 mg PCBs (total administered dose) over 7 d (PND 1-7). Doses of 2 and 4 mg/kg-d calculated using subchronic reference value for body weight (0.179 kg female) provided for Long-Evans rats in EPA 1988. Litter size was reduced to 8 at PND 1. Pups were weaned at PND 28. Text states that treated animals showed regular estrous cycles as indicated by vaginal smears taken starting at PND 50.

18 0.9 0.229 0.264 6	

 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21

22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



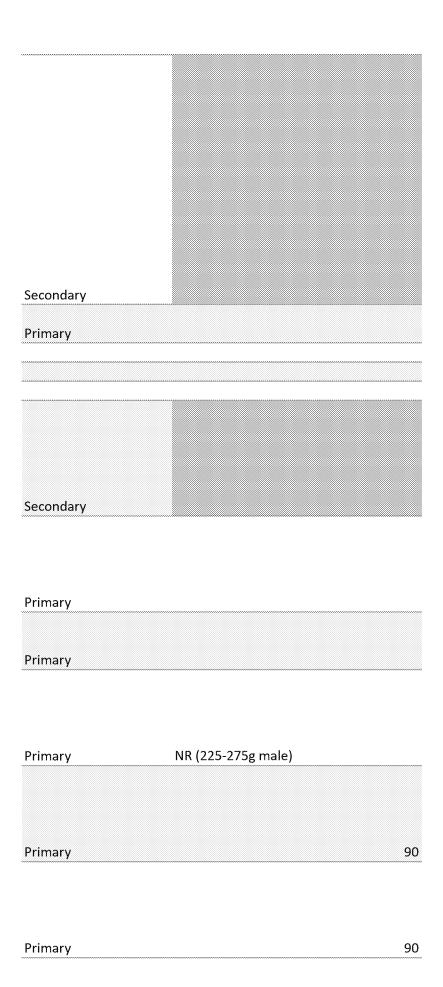
Herr et al.	2001	1416693
Käkelä et al.	2002	1416764
Käkelä et al.	2002	1416764
Käkelä et al.	2002	1416764
Käkelä et al.	2002	1416764
Taylor et al.	2002	1417198
Pravettoni et al.	2005	1417513
Nakai et al.	2005	1417552
Nakai et al.	2005	1417552
Murugesan et al.	2005	1417568
Murugesan et al.	2005	1417568

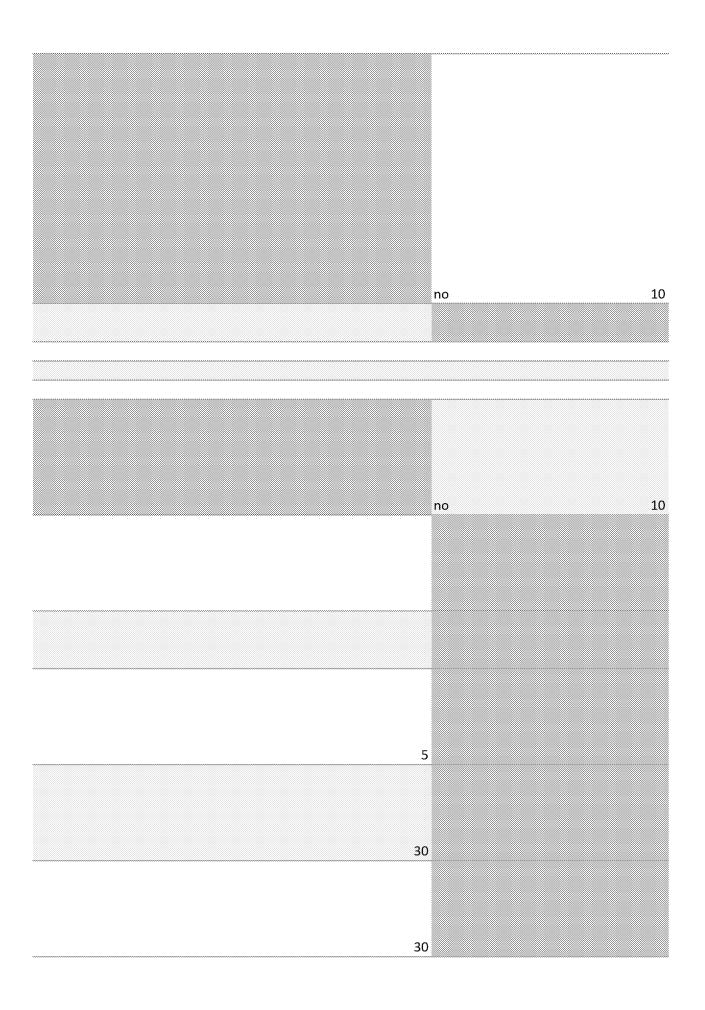
visual-evoked potentials (flash-evoked potentials), somatosensory-evoked potentials (SEPcortex and SEPcerebellum), peripheral nerve-evoked potentials (compound nerve action potential and nerve conduction velocity-evoked potentials), low-frequency auditory function (reflex modification audiometry)
litter size
liver phospholipids and triacylglycerolsrelative liver weightsalcoholic vitA1 and A2 and esterified A1 and A2 in liver, prop liver phospholipids and triacylglycerolsrelative liver weightsalcoholic vitA1 and A2 and esterified A1 and A2 in liver, prop liver phospholipids and triacylglycerolsrelative liver weightsalcoholic vitA1 and A2 and esterified A1 and A2 in liver, prop
inver phospholipius and thacylgryceroisiciative liver weightsalcoholic vital and az and esternica at and az in liver, prop
schedule-controlled behavior: acquisition and steady-state performance under a series of fixed-interval reinforcement schedules
maternal weight gain
brain weight
neurotransmitter levels
testis, epididymis, seminal vesicle, and ventral prostatic weight
testis, epididyrins, seriinai vesicie, and verid ai prostatic weight
serum testosterone and estradiol levels

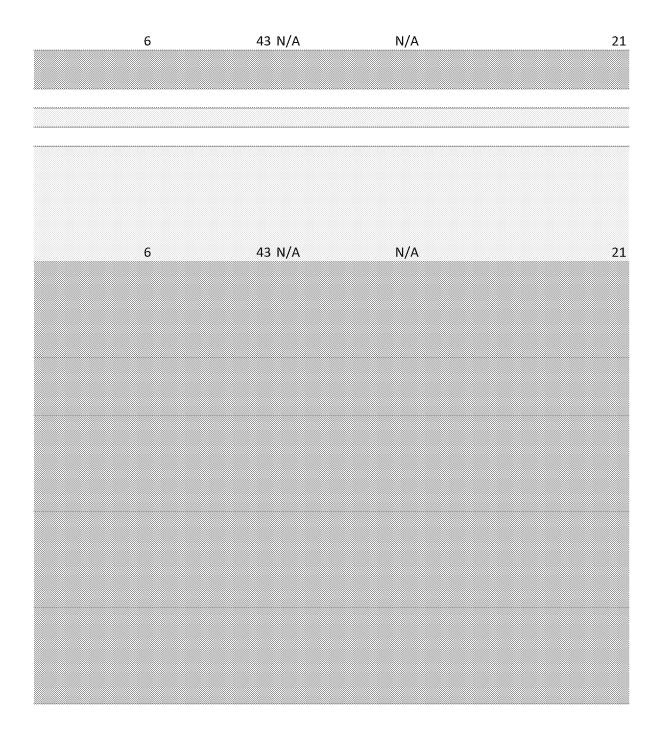
Sensory function	Nervous System
Pregnancy/conception rate	Reproductive
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cognitive function	Nervous System
Maternal weight gain	Reproductive
Brain-histological, structural, morphological	Nervous System
Neurotransmitter levels	Nervous System
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive

Aroclor 1254	
Aroclor 1242	
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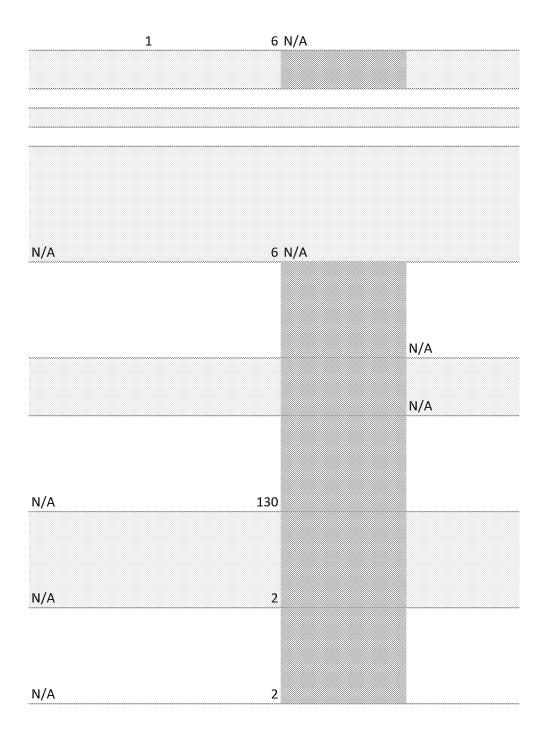
	Rat	Oral-gavage
	Mink	Oral-diet
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	Rat	Oral-gavage
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	Rat	Injection-ip
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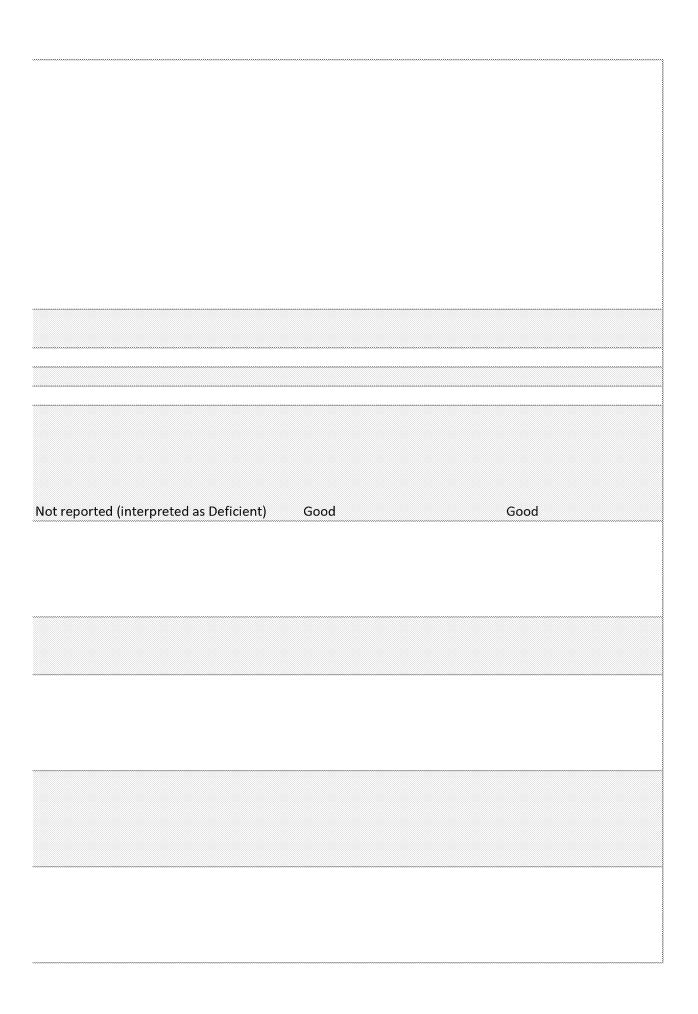


150 2	2	1	6
82 2	2	6	6
	2	130	130
	2	2	2
	2	2	2



Rat dams dosed from GD 6 to PND 21. Sensory testing performed at PND 128-140. Litter size NR; use default.
Dams exposed GD6-PND21; FI 3-min with reinforcement omission rate of response altered after PND60
Litter size NR; use default; culled to 10 on PND4
Durant materials and AD1254 via account (25 may/ba) from CD15 to CD10. A other manual mass of the manual mass
Pregnant rats were given AR1254 via gavage (25 mg/kg) from GD15 to GD19. Authors report no SS changes in mean
dam body weight in the text of the manuscript- numbers are given on p. 525. Starting mass or age of dams is not
provided.
Adult male rats (225-275g) exposed for 5 d. "There was no significant change in the brain weights of any group relative
to the non-dosed controls"
Adult male wate (225.275a) assessed for 5 d. Alterrations in normative market and assessing
Adult male rats (225-275g) exposed for 5 d. Alterations in neurotransmitter levels in caudate (HIAA, HVA and dopamine
serotonin, 3-MT), nucleus accumbens (dopamine), hippocampus (serotonin) and substantia nigra DOPAC, HIAA,
dopamine and serotonin).
adult male wistar rats (90 days, 190-210 g at onset) were given AR1254 at 2 mg/kg-d via IP injection for 30 days. Testis,
epidymis, ventral prostate, and seminal vesicle weights are reported in Table 1. Repro organ weights were all decreased
with AR1254 exposure.
adult male wistar rats (90 days, 190-210 g at onset) were given AR1254 at 2 mg/kg-d via IP injection for 30 days. Figure
1 displays the T and E2 concentrations. Hormone levels were decreased with AR1254 exposure.

	22	0.9	0.094	0.154	10	21
		2.2	0.040	0.055	_	
	52	0.9	0.312	0.066	5 5	56
	52 52	0.9	0.312	0.066	5	56 56
	52 52	0.9 0.9	0.312 0.312	0.066 0.066	5	56 56
	32	0.9	0.512	0.000	3	70
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
***************************************						
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21



Murugesan et al.	2005	1417737
Käkelä et al.	2003	1417774
Käkelä et al.	2003	1417774
Käkelä et al.	2003	1417898
Käkelä et al.	2003	1417898
Lee et al.	2003	1417916
Alston et al.	2003	1418042
Alston et al.	2003	1418042
Aiston et al.	2003	1410042
Salama et al.	2003	1418293
Salama et al.	2003	1418293
Salama et al.	2003	1418293
Ahmad et al.	2003	1418554
Ahmad et al.	2003	1418554
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Ahmad et al.	2003	1418554
Andric et al.	2003	1418598

serum testosterone and serum estradiol cholesterolhepatic vitamin A levels cholesterolhepatic vitamin A levels total lipidslevels of different fatty acid complexes of both vitamin A2, A1, E total lipidslevels of different fatty acid complexes of both vitamin A2, A1, E gestation length seminiferous tubule histopathology testes weight estrous cyclicity age of vaginal opening, age at first estrus uterine and ovarian weight estrous cyclicity age of vaginal opening, age at first estrus uterine and ovarian weight estrous cyclicity age of vaginal opening, age at first estrus uterine and ovarian weight testicular and accessory sex organ histopathology testicular diameter serum testosterone testicular and accessory sex organ histopathology testicular diameter serum testosterone testicular and accessory sex organ histopathology testicular diameter serum testosterone GSH, SOD, catalase, GST and GSH-Px in the denucleated fractions of rat liver

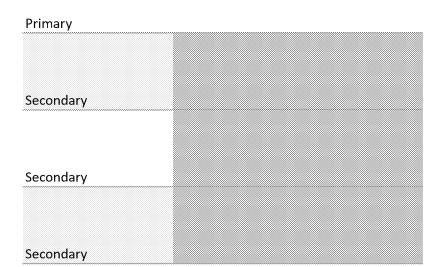
Sex hormone levels, male	Reproductive
Cholesterol	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Micronutrients	Hepatobiliary
Gestation length and preterm birth	Reproductive
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Estrous/menstrual cycle characteristics	Reproductive
Pubertal development, female	Reproductive
Reproductive organ size/weight, female	Reproductive
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Liver Enzyme Induction	Hepatobiliary

Aroclor 1254	 	 	 	 	 		
Aroclor 1242	 	 ***************************************	 	 	 		***
Aroclor 1242		 	 	 	 		
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Aroclor 1242	 	 	 	 	 		
Aroclor 1242				 			
Aroclor 1242							
Pyralene	 	 	 	 	 	******************	

 Rat	Injection-ip	
 Mink	CHECK	
 Mink	CHECK	
 Mink	Oral diat	
 Mink	Oral-diet	
 Rat	Injection-ip	
 Mouse	Oral-diet	
Mouse	Oral-diet	
Rat	Injection-ip	
Rat	Injection-ip	
Mat	пуесиоп-гр	
Rat	Injection-ip	
Rhesus monkey	Oral-capsule	
cy		
Rhesus monkey	Oral-capsule	
Phosus monkov	Oral cancula	
Rhesus monkey	Oral-capsule	
 Rat	Injection-ipIntratrachealOral-CHECK	

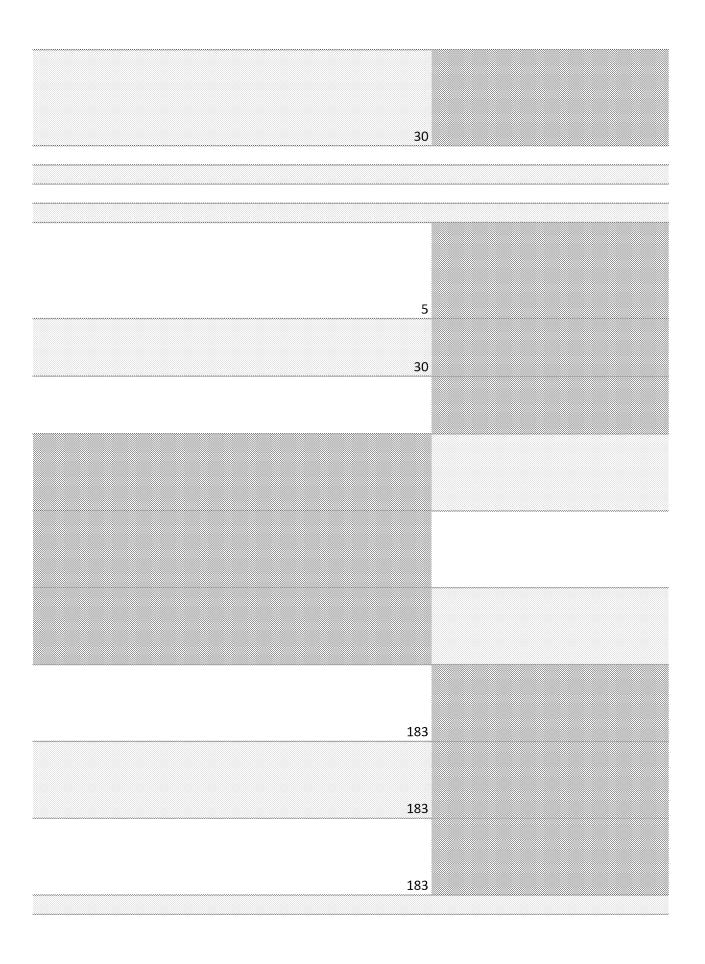
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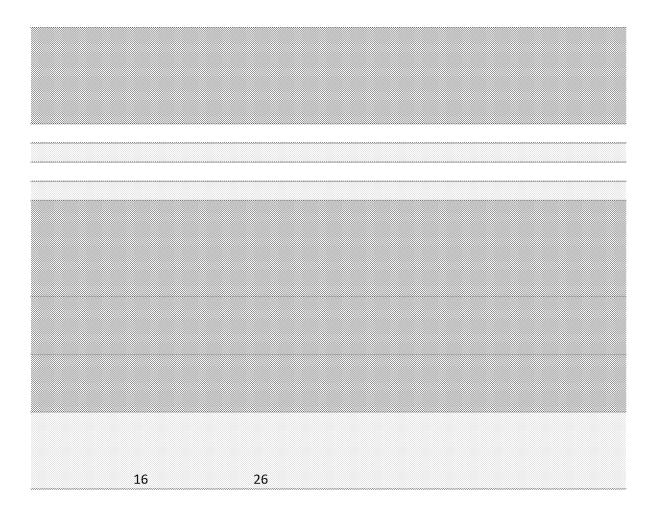
Primary	64
Primary	77

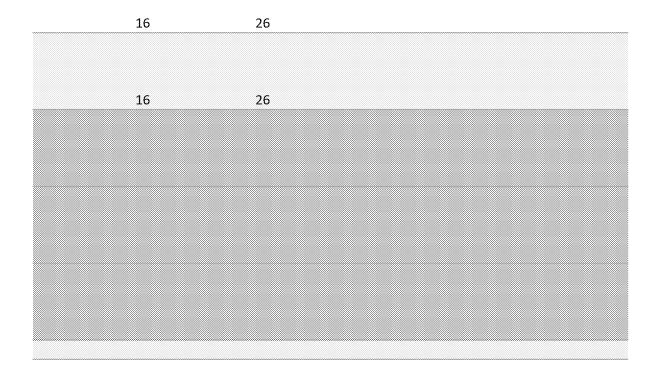


Primary	1825-2555	
Primary	1825-2555	

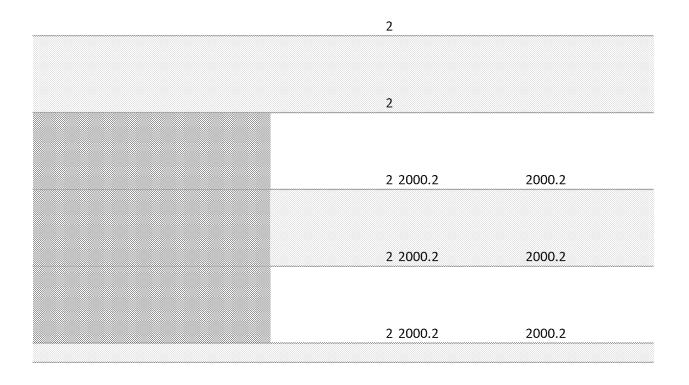
Primary	1825-2555

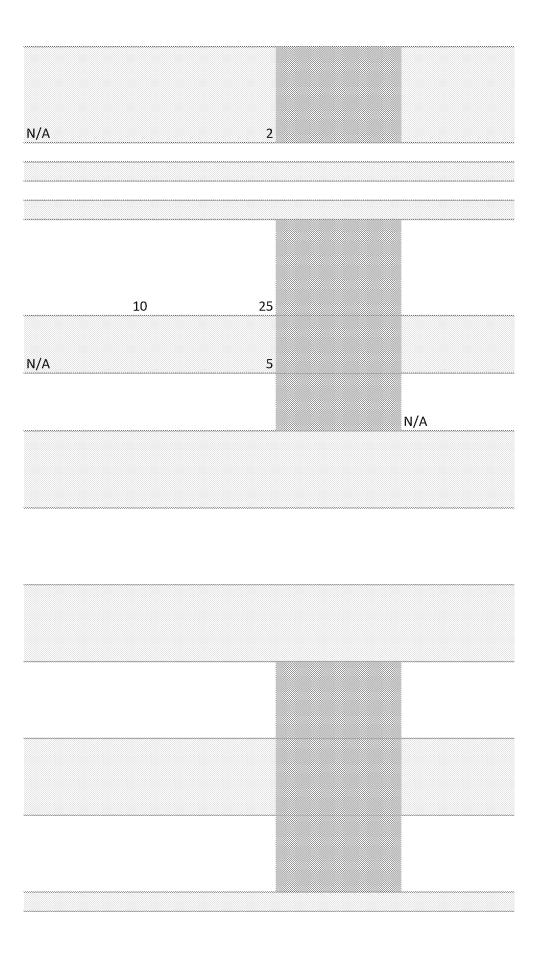






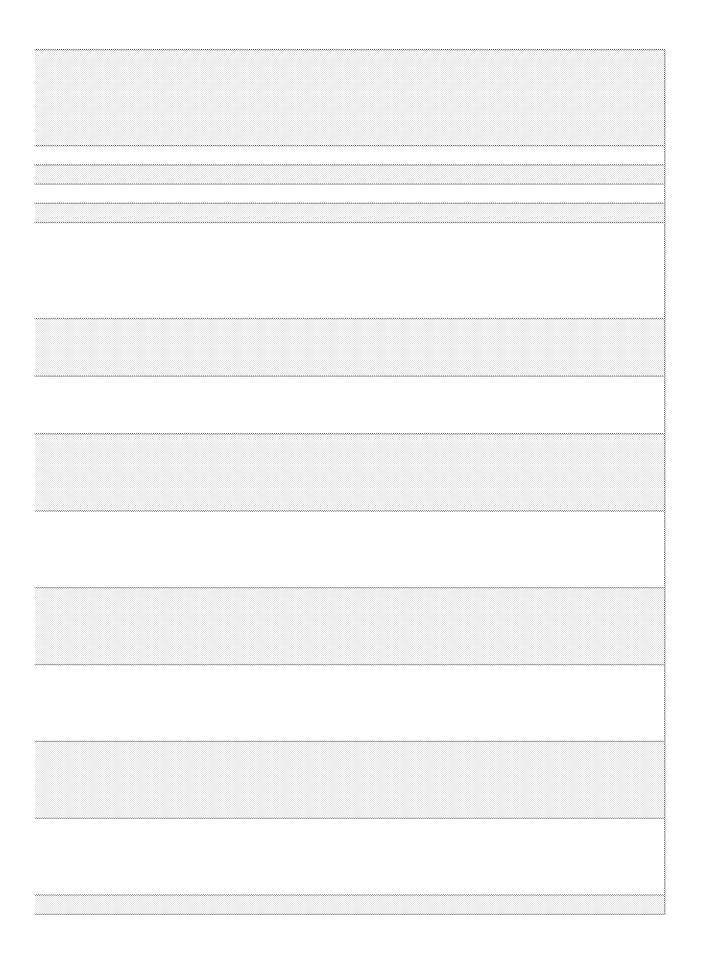
2	2	2
2	10	25
3	5	5
2		





adult male wistar rats (90 days, 190-210 g at onset testosterone and estradiol were measured and we) days.	Serum
Rat dams injected with 0, 10, or 25 mg/kg-day i.p. from GD 15-20 (sacrifice on GD 20). Some dams were allowed to deliver. LOAEL based on significant increase in the length of the gestation period (Table 1). Adult male mice (10-12 weeks old) were dosed with 5 ppm in diet for 30 days. Degenerative alterations in seminiferous tubules are described in text.										
Adult male mice (10-12 weeks old) were dosed with Dosed on GD16, PND1, and PND40, 1 mg/kg-day	th 5 pp	m in di	et for 3	0 days.	No eff	ect on	testis v	veight (Table 1	L).
Dosed on GD16, PND1, and PND40, 1 mg/kg-day Dosed on GD16, PND1, and PND40, 1 mg/kg-day										

22	0.9	0.094	0.154	10	21
52	0.9	0.312	0.066	5	56
52	0.9	0.312	0.066	5	56
52	0.9	0.312	0.066	5	56
52	0.9	0.312	0.066	5	56
22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
10	0.0	0.220	0.264		24
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
168	0.9	0.199	0.054	1	154
168	0.9	0.199	0.054	1	154
168	0.9	0.199	0.054	1	154
22	0.9	0.094	0.154	10	21
	0.3	0.054	U.134	10	21



Venkataraman et al.	2004	1418732
Venkataraman et al.	2004	1418753
V	2004	1410752
Venkataraman et al.	2004	1418753
Anbalagan et al.	2003	1418793
	2002	4.440702
Anbalagan et al.	2003	1418793
Anbalagan et al.	2003	1418793
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Anhalagan at al	2002	1418793
Anbalagan et al.	2003	1410/32
Khan and Thomas	2004	1418852
Senthil kumar et al.	2004	1418887 1419262
Kato et al.	2004	1413707
Sepkovic and Byrne	1984	1442578

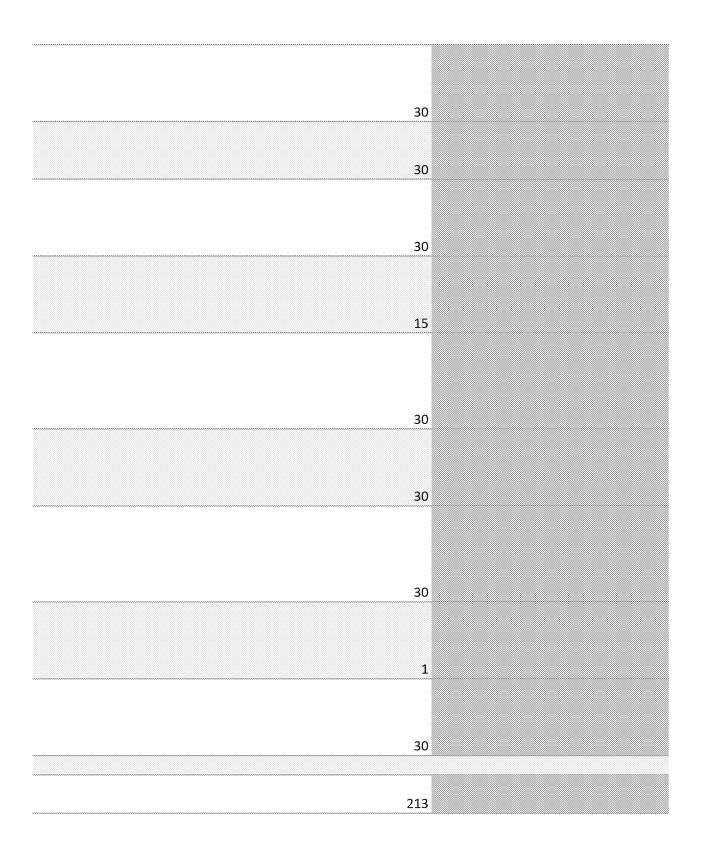
serum testosterone, estradiol							
ventral prostatic weight							
serum testosterone, estradiol							
histological effects on testis and epididymi	S						
cauda epididymis weight							
cauda epididyinis weight							
serum estradiol, testosterone							
sperm count and motility							
serotonin (5-HT) concentrations in the brai	nstem and f	frontal cor	tex				
absolute and relative testis weight							
activity levels and concentrations of UGT1/	\1/UGT1A6	(measure	d as T4-UDF	P-GT), UGT2I	B1, hepatic	type-l T4-d	eiodinase
ovary weight, uterus weight							

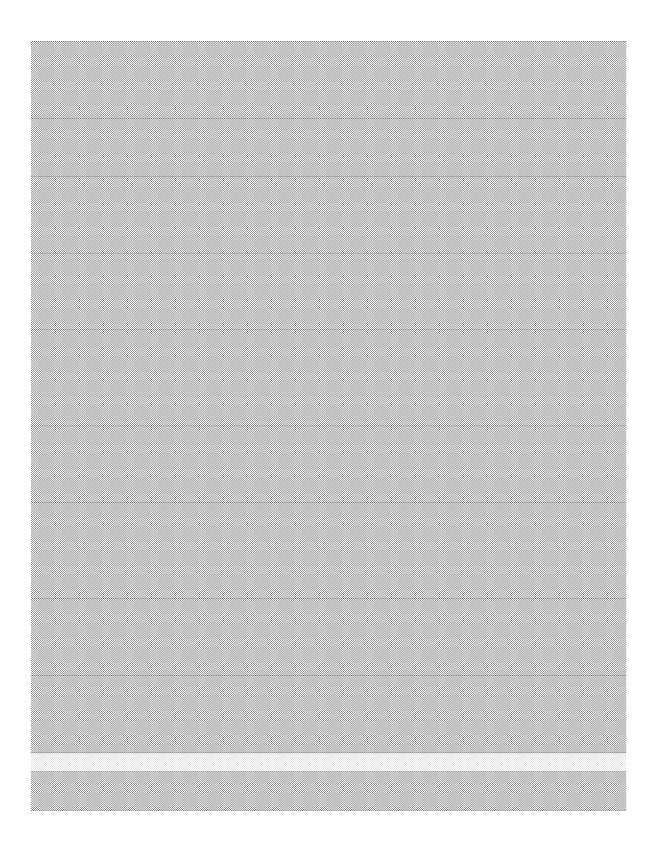
Sex hormone levels, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive
Sperm/semen parameters	Reproductive
Neurotransmitter levels	Nervous System
Reproductive organ size/weight, male Liver Enzyme Induction	Reproductive Hepatobiliary
Reproductive organ size/weight, female	Reproductive

Aroclor 1254			 	 	
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Aroclor 1254					
Aroclor 1254	 				
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Aroclor 1254					
Aroclor 1254					
Kanechlor 500					
Aroclor 1242	 	 	 	 	

Rat	Injection-ip
Rat	Injection-ip
 Rat	Injection-ip
Rat	Oral-gavage
Rat Rat	Injection-ip Injection-ip
 Rat	Oral-diet

Primary		90
Primary		90
Primary		31.5
Primary		90
Primary	NR (225 g female)	



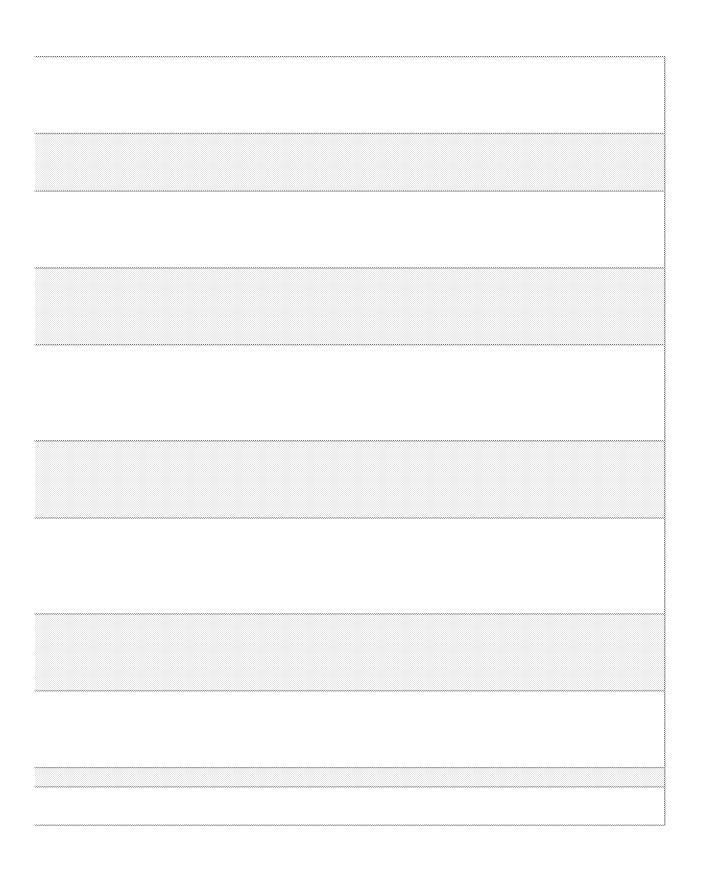


2	2	2
2	2	2
2	2	2
2	2	2
2	0.2	0.2
2	0.2	0.2
2	0.2	0.2
2	0.2	0.2
		0.12
2	330	330
2	2	2
3	50	50

N/A N/A	2	
N/A	2	
N/A	0.2	
N/A	0.2	
N/A	0.2	
N/A	0.2	
N/A	330	
N/A	2	

Adult male rats (90 days old) were injected with 2 mg/kg-day for 30 days. LOAEL is based on decreased serum estradiol and testosterone at necropsy (Figure 4). Adult male rats (90 days old) were injected with 2 mg/kg-day for 30 days. LOAEL is based on decreased ventral prostate weight (Table 1). Adult male rats (90 days old) were injected with 2 mg/kg-day for 30 days. LOAEL is based on decreased serum testosterone and estradiol at necropsy (Table 1). Adult male rats (90 days old) were injected with 200 ug/kg-day ip for either 15 or 30 days. LOAEL is based on some histopathological effects after 15 days of exposure. Adult male rats (90 days old) were injected with 200 ug/kg-day ip for either 15 or 30 days. LOAEL is based on signficantly decreased cauda epididymis weight after 30 days exposure; no effects after 15 days exposure (Table 2). Adult male rats (90 days old) were injected with 200 ug/kg-day ip for either 15 or 30 days. LOAEL is based on signficantly decrase in serum estradiol t after 30 days exposure; no effects after 15 days exposure (Table 1). Adult male rats (90 days old) were injected with 200 ug/kg-day ip for either 15 or 30 days. LOAEL is based on signficantly decreased sperm counts and motility after 30 days exposure; no effects after 15 days exposure (Table 2). Single dose to adolescent male rats (0.33 mg/g bw = 330 mg/kg bw). Starting age 4-5 wk (assume 31.5 d). Endpoint evaluations 7 d after dosing. Significant reductions in frontal cortex serotonin levels. Adult male rats (90 days) were injected ip with 2 mg/kg-day for 30 days. LOAEL is based on signficantly decreased absolute and relative testis weight (Table 1).

 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21
 22	0.9	0.094	0.154	10	21



Sepkovic and Byrne 1984 1442578 Sepkovic and Byrne 1984 1442578 Barter and Klaassen 1994 1442640 Barter and Klaassen 1994 1442640 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Murk et al. 1991 1442766 Kato et al. 2007 1442779	3))
Sepkovic and Byrne 1984 1442578 Barter and Klaassen 1994 1442640 Barter and Klaassen 1994 1442640 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Murk et al. 1991 1442766 Murk et al. 1991 1442766	3))
Sepkovic and Byrne 1984 1442578 Barter and Klaassen 1994 1442640 Barter and Klaassen 1994 1442640 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Murk et al. 1991 1442766	3))
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Barter and Klaassen 1994 1442640 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Murk et al. 1991 1442766	2
Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Hallgren et al. 2001 1442712 Murk et al. 1991 1442766	2
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Murk et al. 1991 1442766	2
Murk et al. 1991 1442766	2
Murk et al. 1991 1442766 Murk et al. 1991 1442766 Murk et al. 1991 1442766	
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Kato et al. 2007 1442779	ŝ
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Hakansson et al. 1992 1482580)
Bennett et al. 1938 1482916	5
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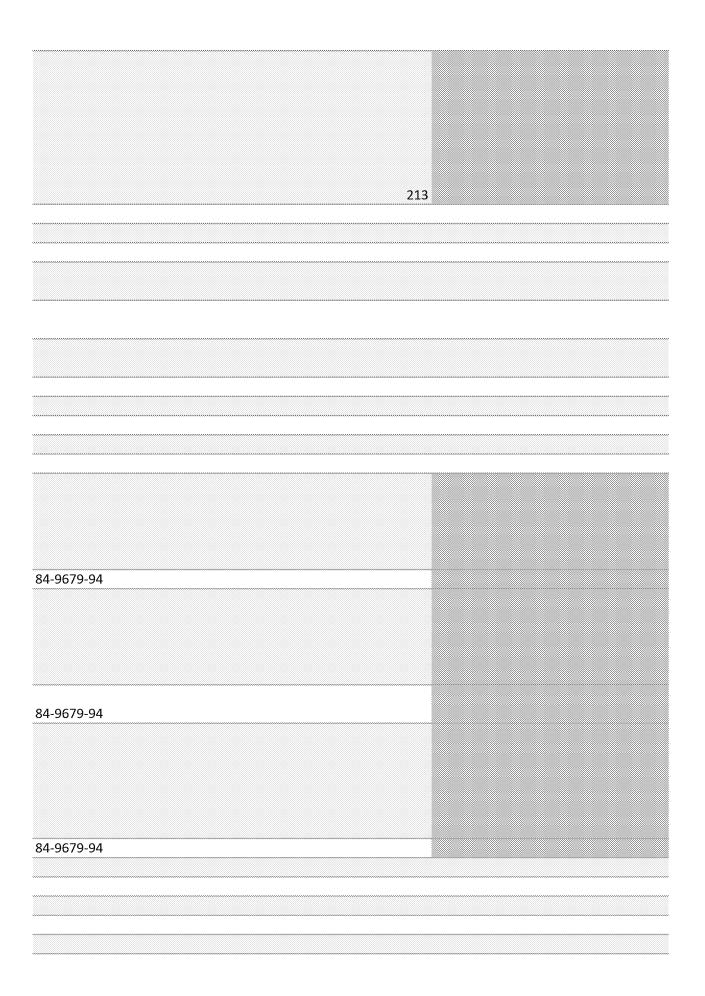
ovary weight, uterus weight
liver weight
induction of liver UDP-GT functionliver weight
induction of liver UDP-GT functionliver weight
EROD, PROD, MROD, UDPGT activity, cytochrome P-450 activityrelative liver weight (liver somatic index= liver wt./bw)live
EROD, PROD, MROD, UDPGT activity, cytochrome P-450 activityrelative liver weight (liver somatic index= liver wt./bw)live
EROD, PROD, MROD, UDPGT activity, cytochrome P-450 activityrelative liver weight (liver somatic index= liver wt./bw)live
cytochrome P-450, EROD, PROD, plasma retinol, hepatic retinoid levelliver pathologyliver weight (absolute)
cytochrome P-450, EROD, PROD, plasma retinol, hepatic retinoid levelliver pathologyliver weight (absolute)
cytochrome P-450, EROD, PROD, plasma retinol, hepatic retinoid levelliver pathologyliver weight (absolute)
cytochrome P-450, EROD, PROD, plasma retinol, hepatic retinoid levelliver pathologyliver weight (absolute)
hepatic microsomal activities of benzyloxyresorufin O-dealkylase(CYP2B1/2 and CYP3A1/2), pentoxyresorufin O-dealkyla
ovulation
ovulation
mean number of placental sites
mean number of placental sites
ovary weight
ovary weight
liver histological changes (including hemosiderosis of kupffer cells, polymorphonuclear cells in the liver, mononucelar cel
liver histological changes (including hemosiderosis of kupffer cells, polymorphonuclear cells in the liver, mononucelar cel
liver, lung and kidney vitamin A contents
morphology, pigmentation, necrosis, hyaline degenerationliver weight
morphology, pigmentation, necrosis, hyaline degenerationliver weight
morphology, pigmentation, necrosis, nyanne degenerationniver weight

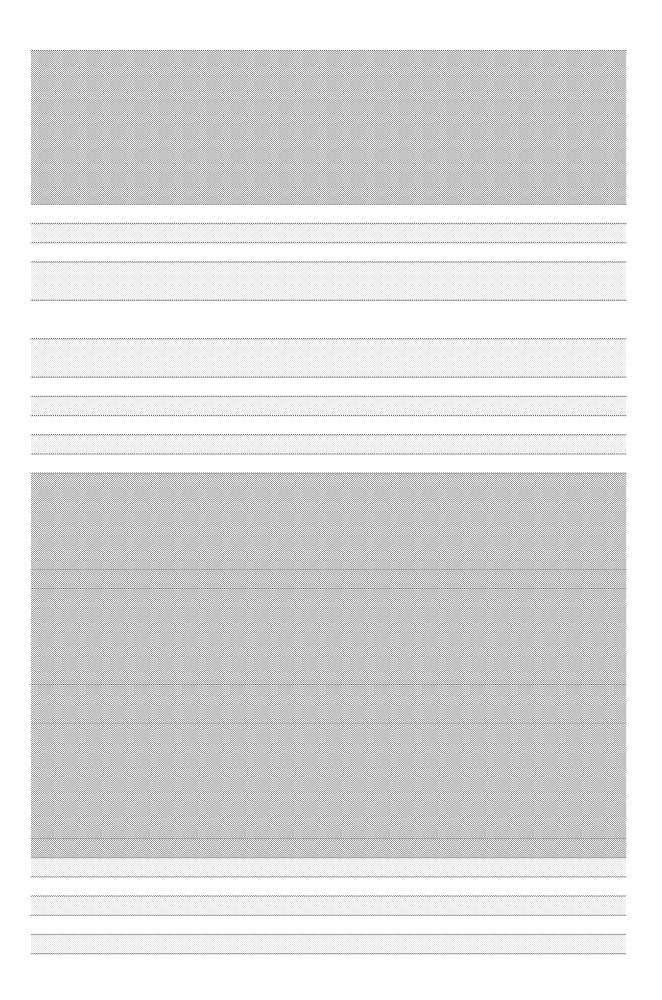
Reproductive organ size/weight, female	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Ovulation	Reproductive
Ovulation	Reproductive
Pregnancy/conception rate	Reproductive
Pregnancy/conception rate	Reproductive
Reproductive organ size/weight, female	Reproductive
Reproductive organ size/weight, female	Reproductive
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

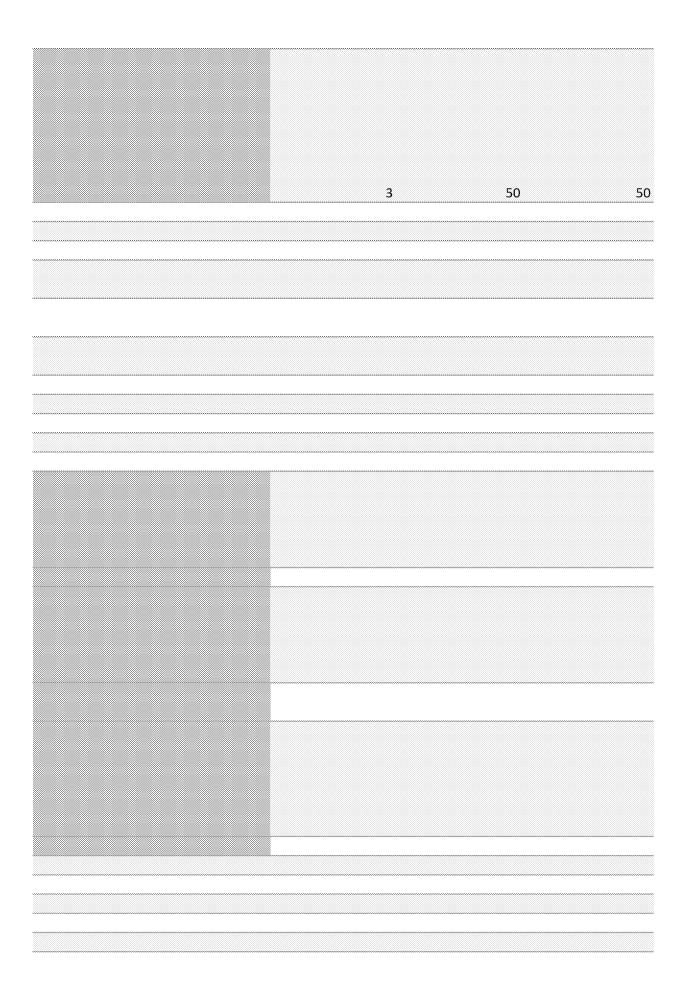
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Aroclor 1242Aroclor 1254	
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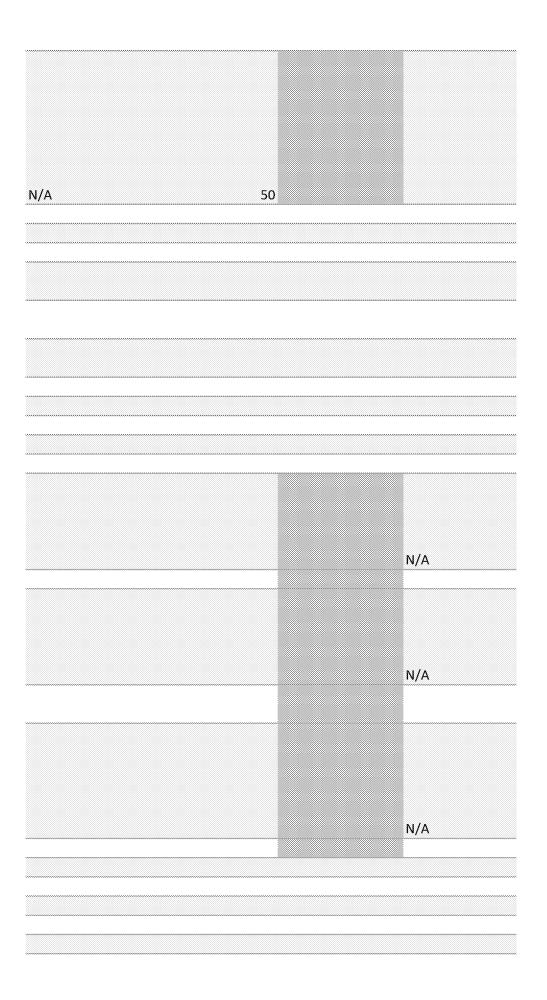
Rat	Oral-diet
Rat	Oral-diet Oral-diet
 Rat	Oral-diet Oral-diet
 Rat	Oral-diet Oral-diet
 Nat	Oldi-ulet
MouseRat	Oral-gavage
 Wousenat	Oral gavage
MouseRat	Oral-gavage
 Woodschat	Crui gavage
MouseRat	Oral-gavage
 Mouse	Injection-ip
 Mouse	Injection-ip
Mouse	Injection-ip
Mouse	Injection-ip
 Rat	Injection-ip
Mink	Oral-diet
 Mink	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
 Mink	Oral-diet
 Mink	Oral-diet
 Rat	Inhalation Oral-diet
 Rat	Inhalation Oral-diet

Drimory		00
Primary		90
Primary Primary	730365	
Primary		
Primary	730365	
Primary Primary	730365	



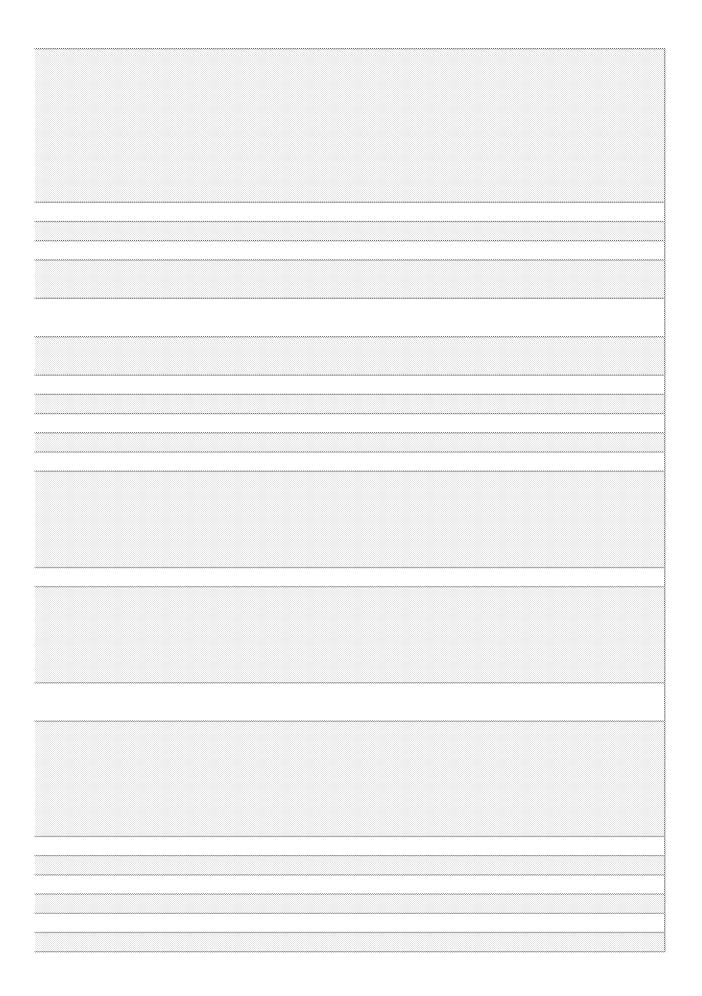






Female rats were dosed with 50 ppm in diet for approximately 7 months. LOAEL based on significantly increased relative ovary weight (Table 2). [Body weight and absolute organ weights are not reported, which limits the interpretation of the absolute organ weight data.] Starting age NR; 225 g Sprague-Dawley females; assume 90 d
elative ovary weight (Table 2). [Body weight and absolute organ weights are not reported, which limits the nterpretation of the absolute organ weight data.]
elative ovary weight (Table 2). [Body weight and absolute organ weights are not reported, which limits the nterpretation of the absolute organ weight data.]
ocar aring age ran, 225 g opragae Dawiey remaies, assume 50 a
One-year-old female mink were dosed with 1.64 mg/day beginning ~28 days prior to mating and continuing until parturition. Text states that there was no effect on the mean number of corpora per female. Exposure duration recorded here as 28 days. O, 2 mg/day0, 1.64 mg/day
One-year-old female mink were dosed with 1.64 mg/day beginning $^{\sim}28$ days prior to mating and continuing until parturition. Text states that there was no effect on the mean number of placental sites. Exposure duration recorded here as 28 days.
0, 2 mg/day0, 1.64 mg/day
One-year-old female mink were dosed with 1.64 mg/day beginning ~28 days prior to mating and continuing until parturition. Text states that "There was no significant difference in ovary weights between the control group and exposed groups." Exposure duration recorded here as 28 days.
0, 2 mg/day0, 1.64 mg/day
0, 2 mg/day0, 1.64 mg/day
0, 2 mg/day0, 1.64 mg/day

	22	0.9	0.094		0.154		10	21
	22	0.9	0.094		0.154		10	21
	22	0.9	0.094		0.154		10	21
	22	0.9	0.094		0.154		10	21
		0.5	0.054		0.154		10	
CHECK		0.9 CHECK		CHECK		CHECK	CHECK	
OHLOR		0.5 011000		OHLOR		CITEON	OHLON	
CHECK		0.9 CHECK		CHECK		CHECK	CHECK	
CHECK		0.9 CHECK		CHECK		CHECK	CHECK	
	18	0.9	0.229		0.264		6	21
	18	0.9	0.229		0.264		6	21
	18	0.9	0.229		0.264		6	21
	18	0.9	0.229		0.264		6	21
	22	0.9	0.094		0.154		10	21
	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
***************************************	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
							_	
	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
	52	0.9	0.312		0.066		5	56
	22	0.9	0.094		0.154		10	21
	22	0.9	0.094		0.154		10	21



Edqvist et al.	1992	1486360
Edqvist et al.	1992	1486360
Hu et al.	2012	1509275
Hu et al.	2012	1509275
Martin et al.	2012	1510306
Martin et al.	2012	1510306
Uslu et al.	2013	1800330
Uslu et al.	2013	1800330
Uslu et al. Jacob et al.	2013 1981	1800330 2125390
Robinson et al.	1975	2142111
Robinson et al.	1975	2142111
Walker et al.	2014	2149404
Walker et al.	2014	2149404
Walker et al.	2014	2149404
Walker et al.	2014	2149404

CYP 1A1, 1A2, 2B1, 2B2 activityhistopath on liver (small foci of mononuclear cells not above background) CYP 1A1, 1A2, 2B1, 2B2 activityhistopath on liver (small foci of mononuclear cells not above background)

hepatic UDP-UGT activityrelative liver weight

hepatic UDP-UGT activityrelative liver weight

uterus weight and histopathology

serum LH and FSH levels

uterus weight and histopathology serum LH and FSH levels

uterus weight and histopathology

serum LH and FSH levels

liver microsomal cytochrome p450, time course of benz[a]anthracene metabolism, profile of benz[a]anthracene metabol aryl hydrocarbon hydroxylase activity, cytochrome P450 concentrationliver necrosis

aryl hydrocarbon hydroxylase activity, cytochrome P450 concentrationliver necrosis

estrous cyclicity pubertal timing (male and female) uterine weight GSI

serum LH, T, E

estrous cyclicity pubertal timing (male and female) uterine weight

GSI

serum LH, T, E

estrous cyclicity pubertal timing (male and female) uterine weight

GSI

serum LH, T, E

estrous cyclicity pubertal timing (male and female) uterine weight

GSI

serum LH, T, E

Cholesterol	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ histopathology, female	Reproductive
Reproductive organ size/weight, female	Reproductive
Sex hormone levels, female	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary

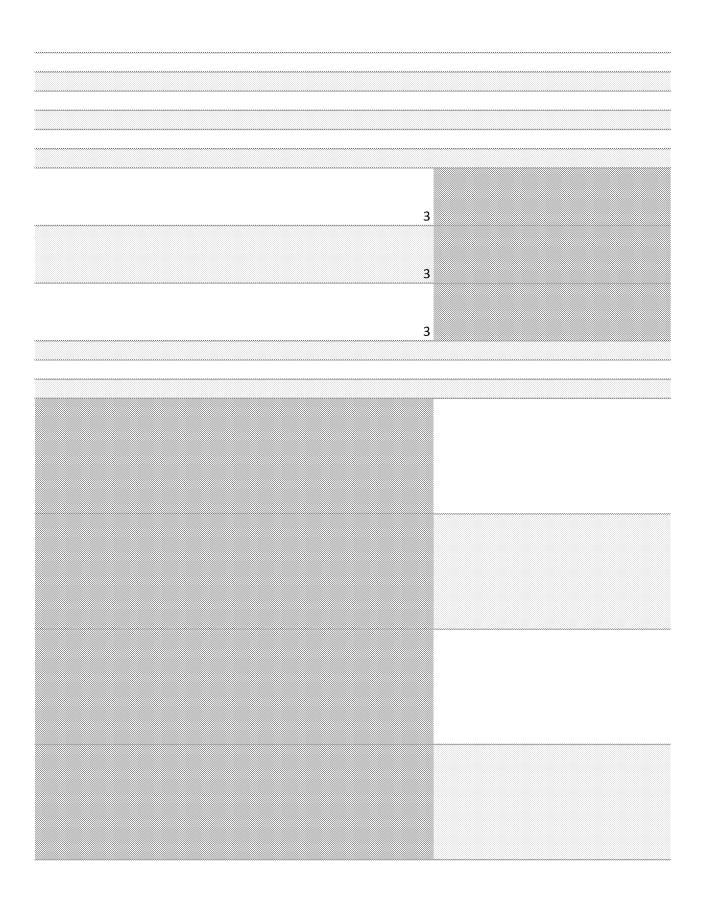
Estrous/menstrual cycle characteristics	Reproductive	
Pubertal development, female	Reproductive	

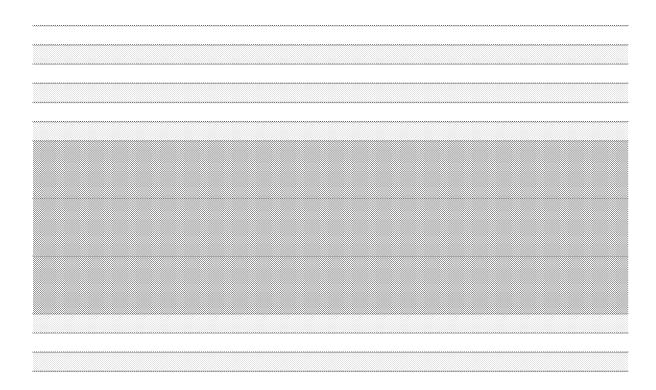
Pubertal development, male	Reproductive	
Reproductive organ size/weight, female	Reproductive	
***************************************	***************************************	******

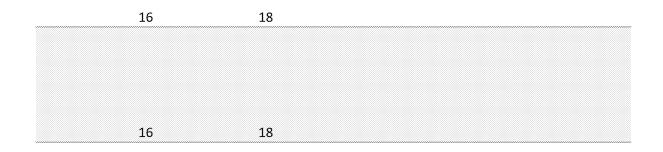
Aroclor 1254	
Aroclor 1254	
Chicago Air Mixture	
Chicago Air Mixture	
Aroclor 1242Aroclor	
Aroclor 1242Aroclor	1254
Aroclor 1221	
Aroclor 1221	
Aroclor 1221	
PCBs	
Aroclor 1254	
Aroclor 1254	
Aroclor 1221	
Aroclor 1221	
Aroclor 1221	
Aroclor 1221	

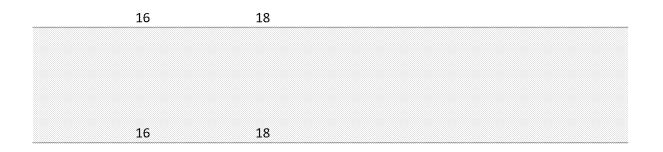
 Mink	Oral-diet
 Mink	Oral-diet
Rat	Inhalation
 Rat	Inhalation
 Rat	Oral-gavage
 Rat	Oral-gavage
 Rat	Injection-sc
Rat	Injection-sc
Rat	Injection-sc
Rat	Injection-ip
 Mouse	Injection-ipOral-CHECK
Mouse	Injection-ipOral-CHECK
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat Rat	Injection-ip Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip

Primary				20
Primary				20
Primary	 	 	 	20
Secondary				
Secondary				
Secondary				
Secondary				
Secondary				

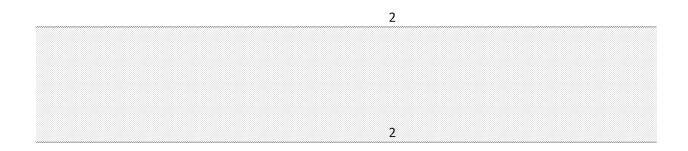


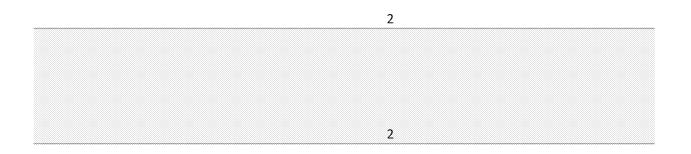


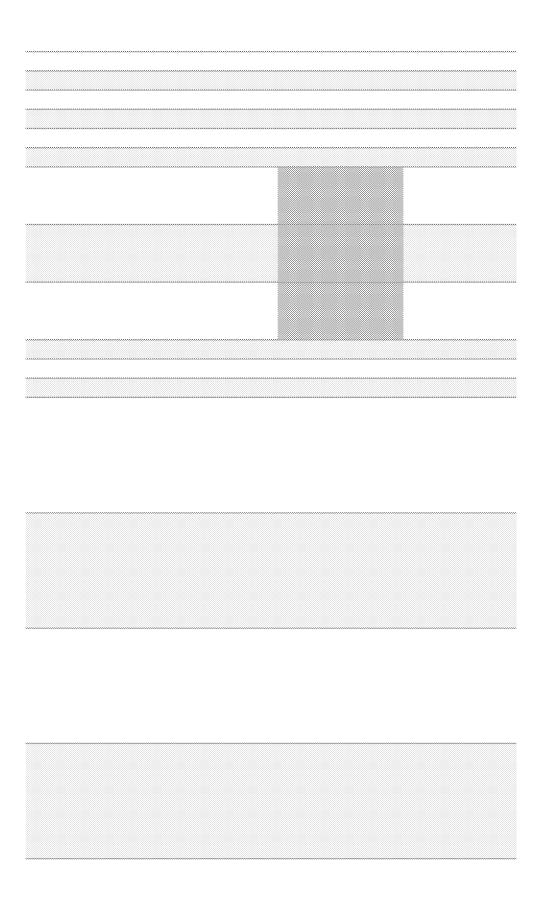




2	10	10
2	10	10
2	10	10

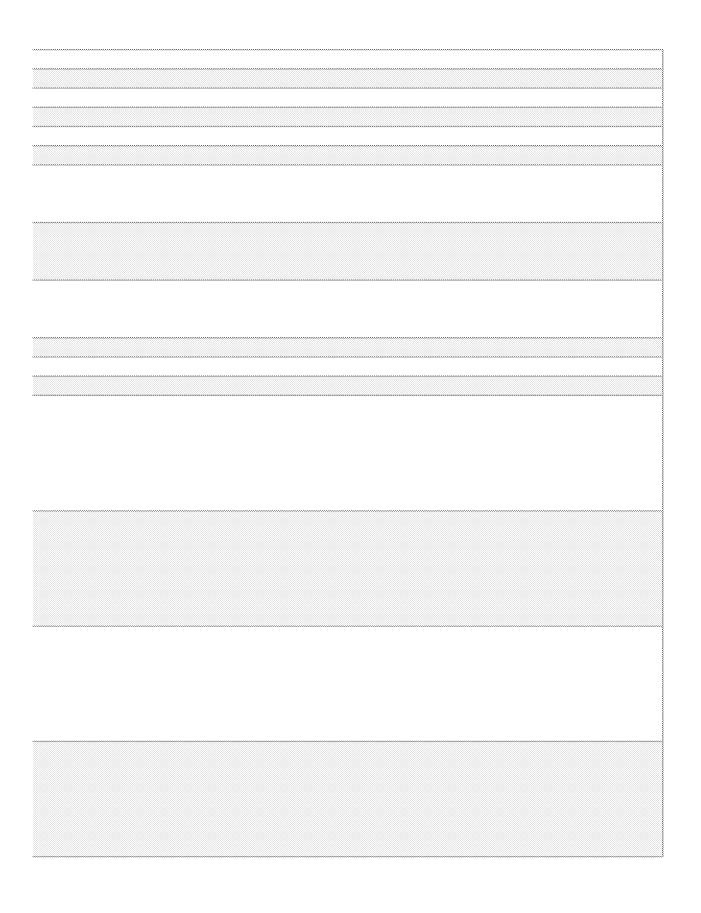






Dosed on GD16 and GD180, 1 mg/kg-day Dosed on GD16 and GD180, 1 mg/kg-day	

 52	0.9	0.312	0.066	5	56
 52	0.9	0.312	0.066	5	56
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21 21
 18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21



Walker et al.	2014	2149404
Walker et al.	2014	2149404
Walker et al.	2014	2149404
Gray et al.	2013	2149612
Selvakumar et al.	2013	2149762
Selvakumar et al.	2013	2149762
C-ll	2012	24.407.62
Selvakumar et al.	2013	2149762
Selvakumar et al.	2013	2149762
Selvakumar et al.	2013	2149762
Pai et al	2014	2149829
Raj et al.	2014	2149029
Raj et al.	2014	2149829
Poon et al.	2013	2149921
Faass et al.	2013	2149928

estrous cyclicity						
pubertal timing (male and female)						
uterine weight						
GSI						
serum LH, T, E			 	 	 	
estrous cyclicity						
pubertal timing (male and female)						
uterine weight						
GSI						
serum LH, T, E			 	 	 	
estrous cyclicity						
pubertal timing (male and female)						
uterine weight						
GSI						
serum LH, T, E			 	 	 	
relative liver weight open field test			 	 	 	
open neid test			 	 	 	
brain histopathology				 	 	
learning and memory in the 8-arm radial m	naze					
open field test			 	 	 	
plasma neurotransmitter levels						
		••••••	 		 	
epididymal histopathology						
epididymal weight						
locomotor activity (beam breaks)						
% of animals with regular estrous cycles						
-9			 	 	 	

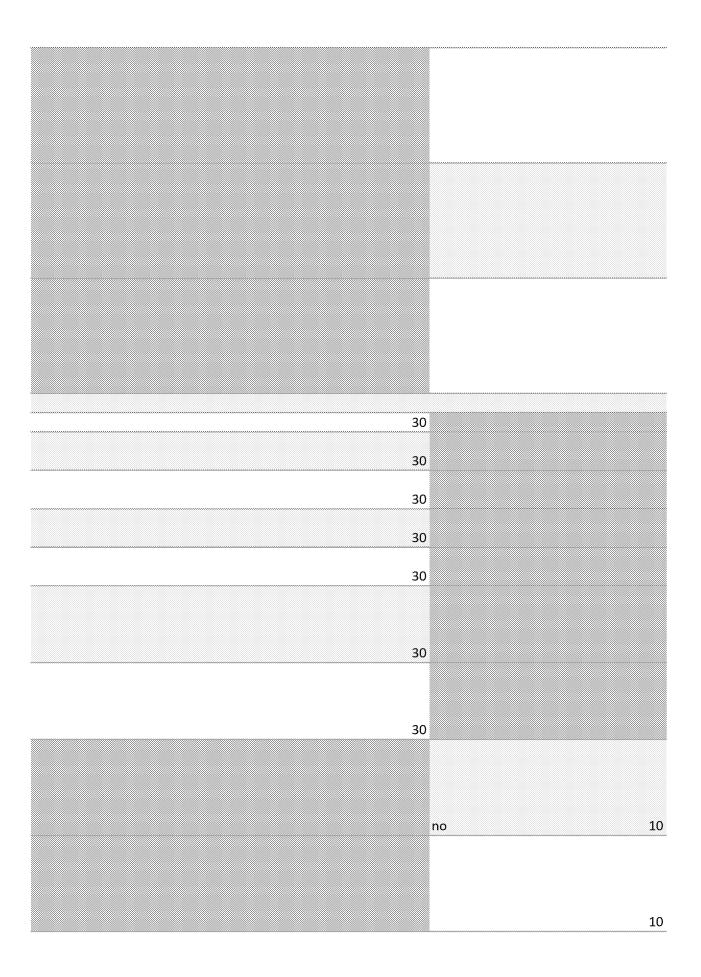
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, female	Reproductive
Sex hormone levels, male	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Activity level	Nervous System
Brain-histological, structural, morphological	Nervous System
Cognitive function	Nervous System
Emotional state/affective behavior	Nervous System
Neurotransmitter levels	Nervous System
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Activity level	Nervous System
Estrous/menstrual cycle characteristics	Reproductive

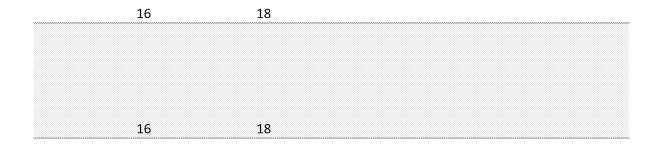
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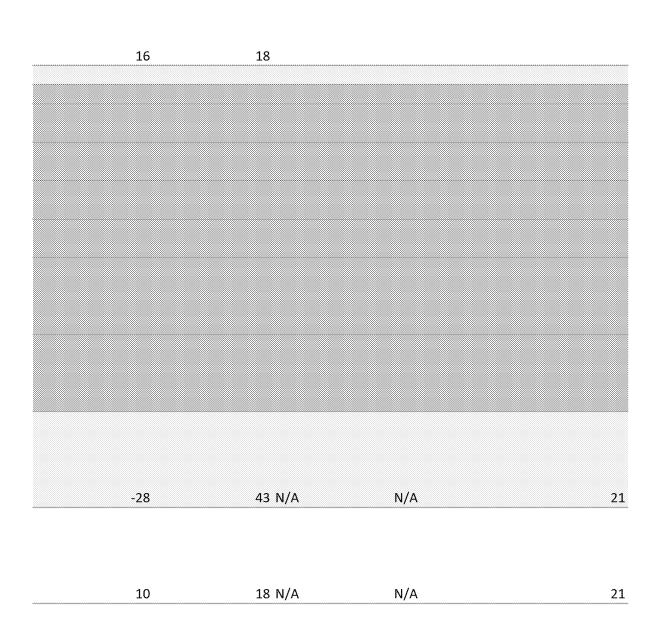
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Mouse	Oral-gavage
Rat	Injection-ip
Dot	Injection in
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Oral-cookie
_	
Rat	Injection-sc

Secondary	
Secondary	
Secondary	
Primary	90
Primary	90
Primary	90
Primary	 90
Primary	90
Primary	60

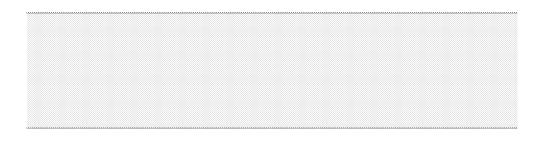








	2		
	2	2	2
	2	2	2
	2	2	2
	2	2	2
	2	2	2
	2	2	2
	2	2	2
97 2	. 2	3	6



N/A	2	
N/A	2	
N/A	2	
N/A	2	
N/A	3 N/A	

N/A 10 N/A

Dosed on GD16 and GD180, 1 mg/kg-day
Dosed on GD16 and GD180, 1 mg/kg-day
Dosed on GD16 and GD180, 1 mg/kg-day
N/A
Adult male rats were injected with 2 mg/kg-day ip for 30 days. LOAEL is based on histopathological changes in epididymis (Figures 9-11 and described in text). Starting age NR; 180 - 200 g Wistar males; assume 60 d Adult male rats were injected with 2 mg/kg-day ip for 30 days. LOAEL is based on decreased relative epididymal weight
(Figure 1B). Starting age NR; 180 - 200 g Wistar males; assume 60 d
Rat dams exposed 28 d prior to mating and continuing until pups were weaned on PND 21. Litter size NR; use default. Litters culled to 10 on PND2. Decreased total number of photobeam breaks as measured after PND 75.
Rat dams were injected with 0, 10, or 30 mg/kg-day from GD 10-18, and estrous cyclicity was evaluated in F1 females at PND 120. Litters culled to 8-10 on PND2; default litter size used. LOAEL is based on increased incidence of irregular estrous cycles (Figure 6).

 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21

ot reported (interpreted as Deficient)	Good	Adequate
ot reported (interpreted as Deficient)	Good	Adequate
ot reported (interpreted as Deficient)	Good	Adequate
ot reported (interpreted as Deficient)	Good	Adequate
ot reported (interpreted as Deficient)	Good	Adequate

Walker et al.	2013	2149949
Walker et al.	2013	2149949
Walker et al.	2013	2149949
Walker et al.	2013	2149949
Trainer et di	2013	213373
Walker et al.	2013	2149949

length of estrous cycles
litter size
pubertal development (male and female)
reproductive aging
uterus weights
GSI
serum LH, estradiol

length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights GSI serum LH, estradiol

length of estrous cycles
litter size
pubertal development (male and female)
reproductive aging
uterus weights
GSI
serum LH, estradiol

length of estrous cycles
litter size
pubertal development (male and female)
reproductive aging
uterus weights
GSI
serum LH, estradiol

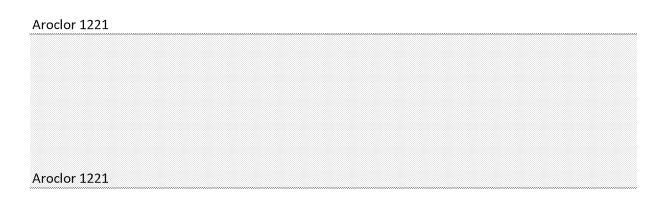
length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights GSI serum LH, estradiol

strous/menstrual cycle characteristics	Reproductive

Pregnancy/conception rate	Reproductive
Pubertal development, female	Reproductive

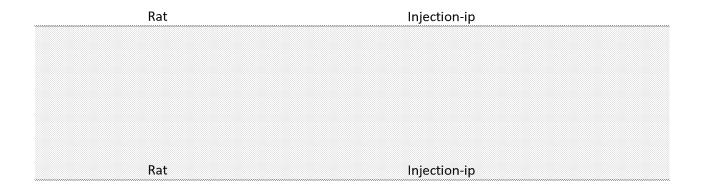
Pubertal development, male	Reproductive	
Reproductive aging	Reproductive	

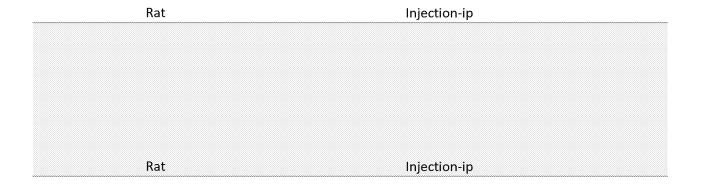


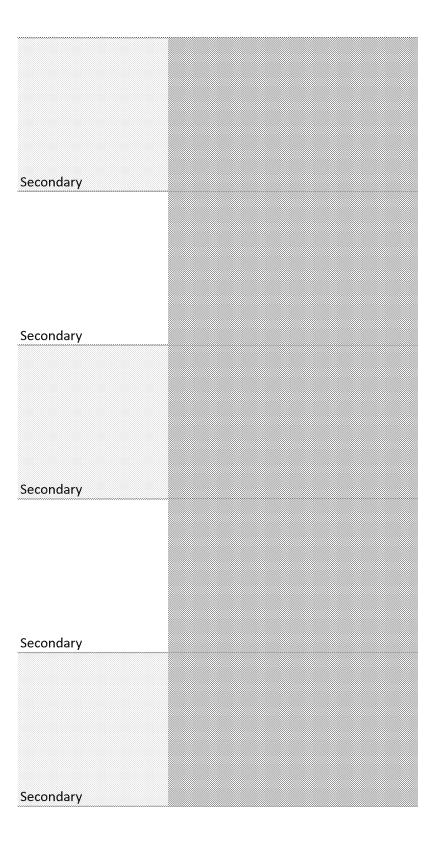


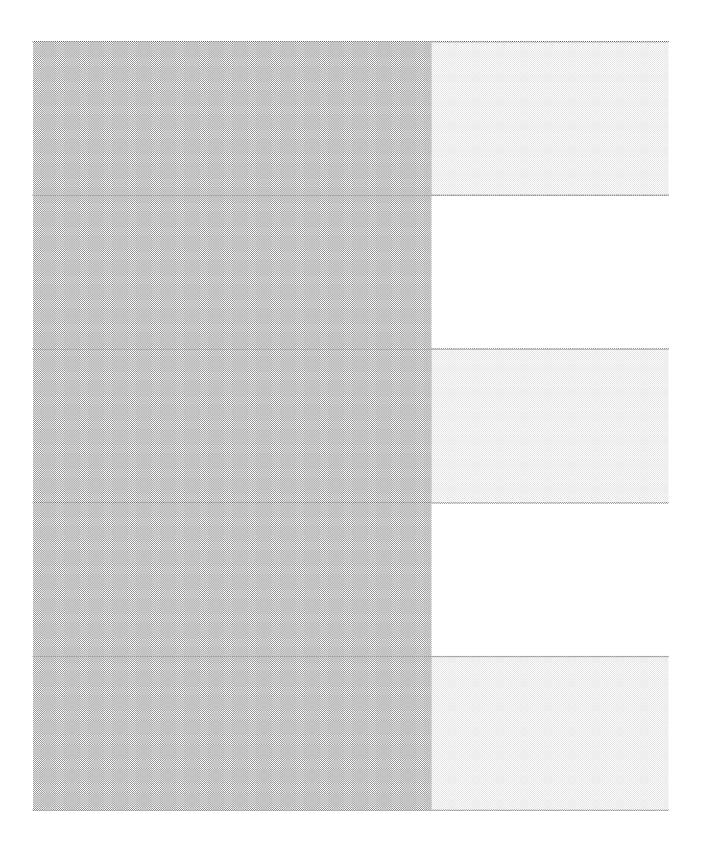


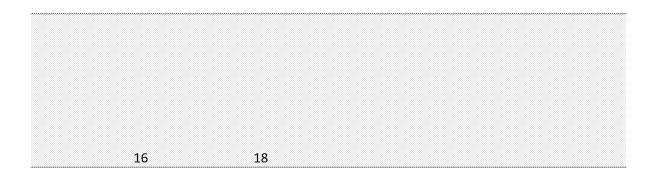


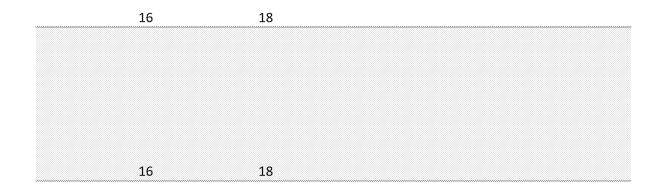


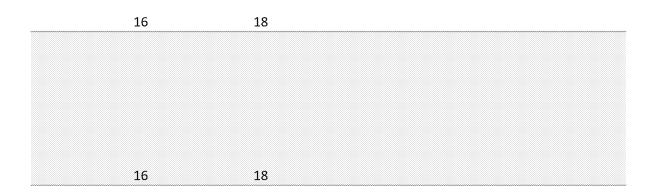


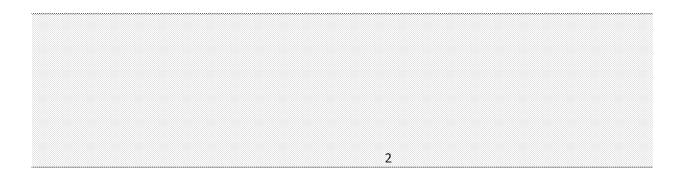




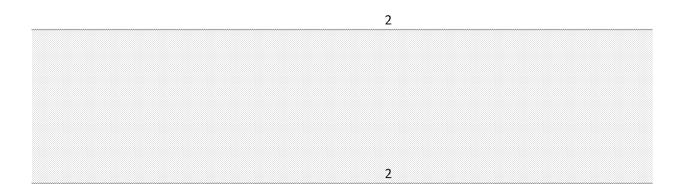


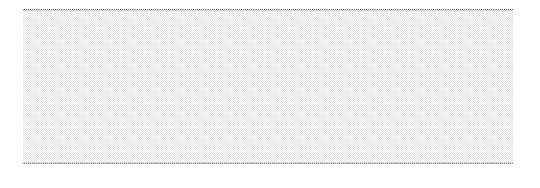


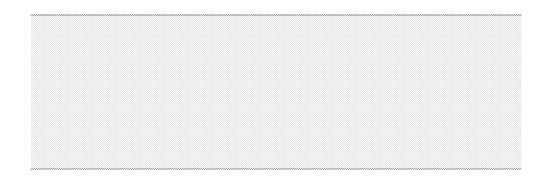


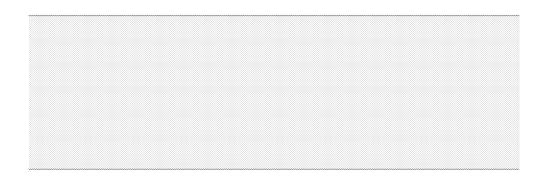


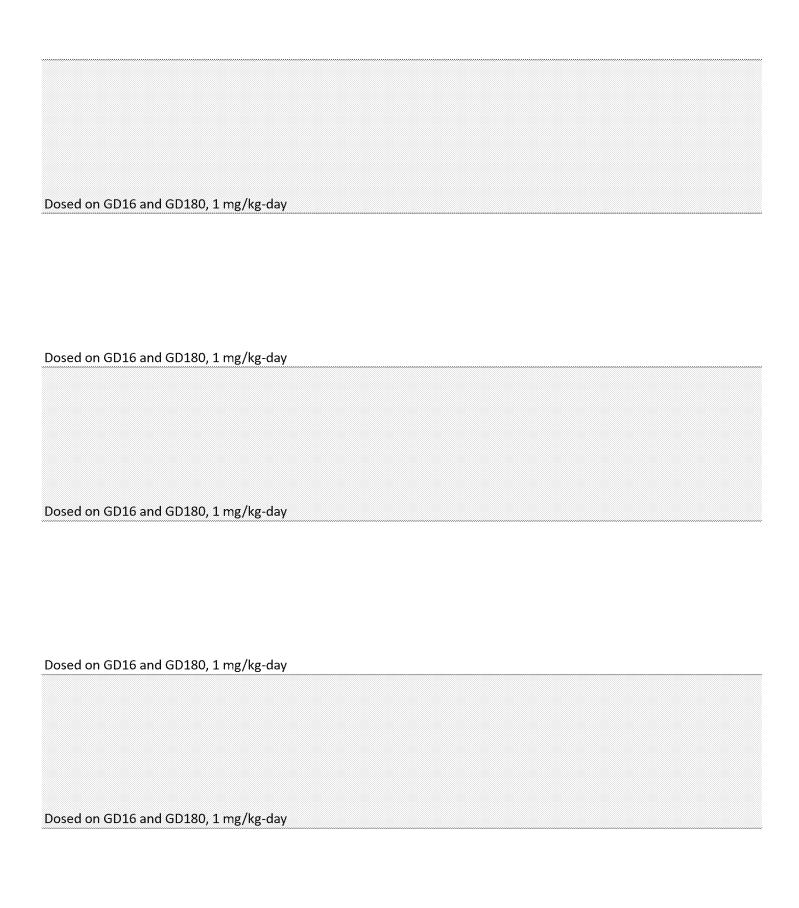
2



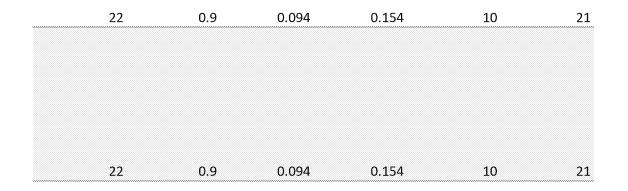




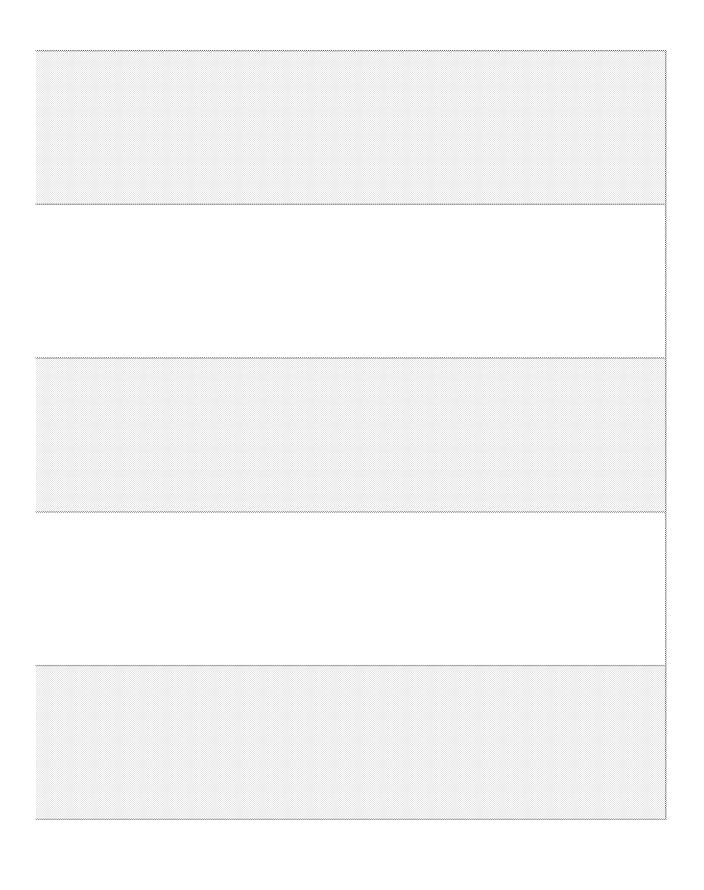




22	0.9	0.094	0.154	10	21







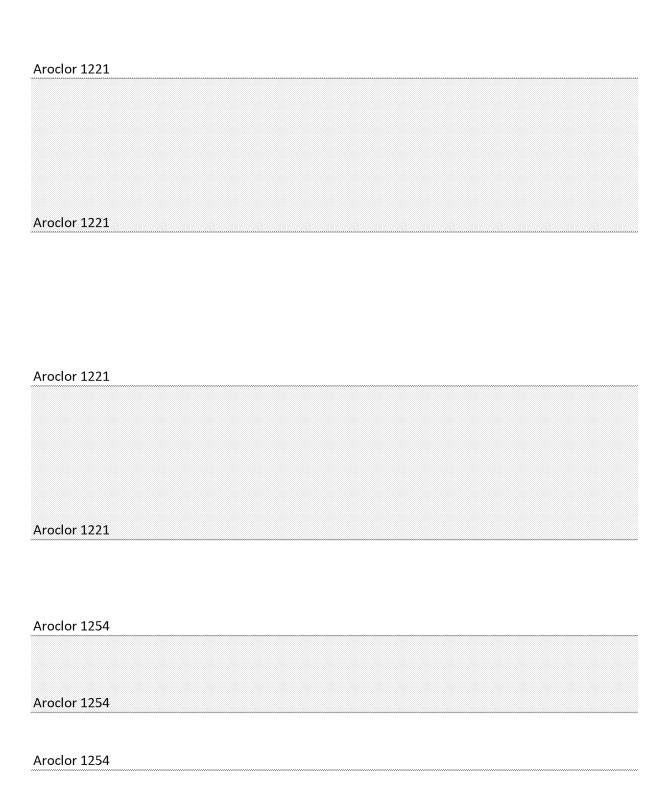
Walker et al.	2013	2149949
Walker et al.	2013	2149949
Walker et al.	2013	2149949
Walker et al.	2013	2149949
Ahmad et al.	2001	2151442
Ahmad et al. Ahmad et al.	2001	2151442 2151442
Anniau et al.	2001	Z1J144Z

length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights GSI serum LH, estradiol length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights GSI serum LH, estradiol length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights GSI serum LH, estradiol length of estrous cycles litter size pubertal development (male and female) reproductive aging uterus weights **GSI** serum LH, estradiol histopathology of testes and accessory sex organs testicular volume serum testosterone levels

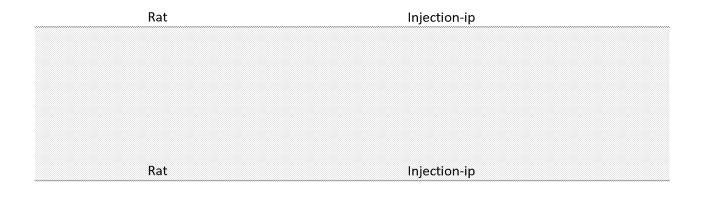
Reproductive organ size/weight, female	Reproductive	
Reproductive organ size/weight, male	Reproductive	

Sex hormone levels, female	Reproductive
Sex hormone levels, male	Reproductive

Reproductive organ histopathology, male	Reproductive	
Reproductive organ size/weight, male	Reproductive	
Sex hormone levels, male	Reproductive	



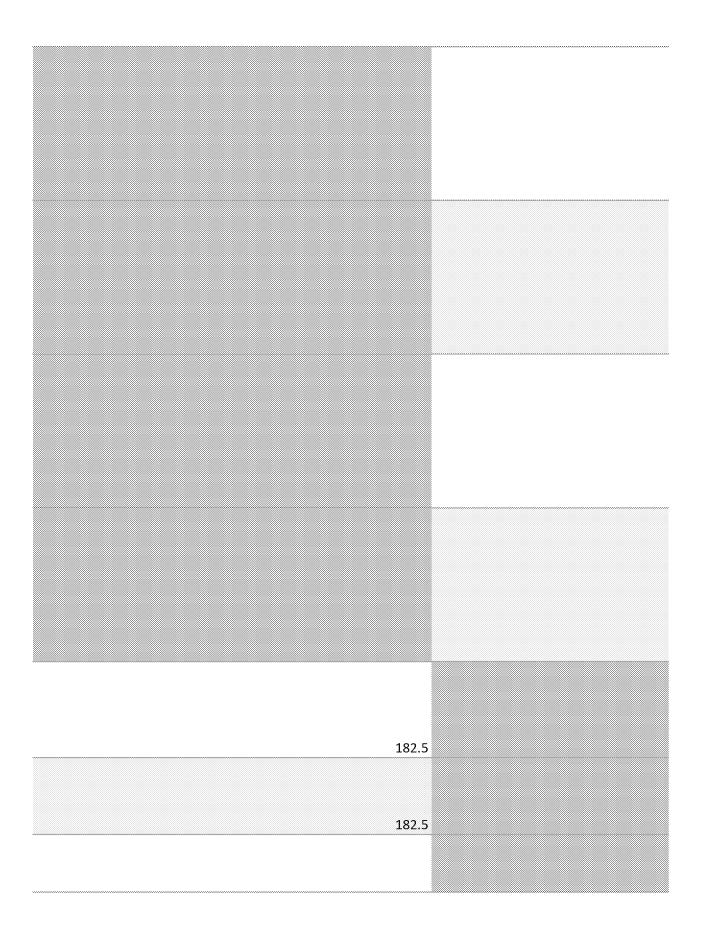
Rat	Injection-ip	
 Rat	Injection-ip	

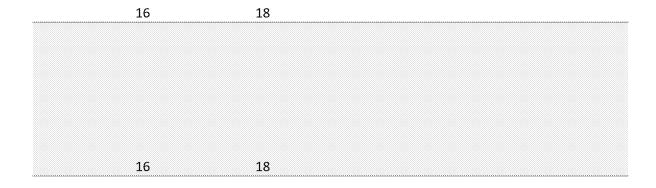


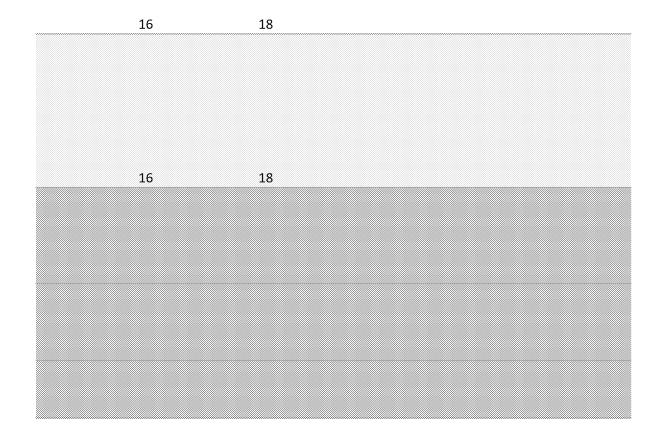
Rhesus Monkey	Oral-capsule	
Rhesus Monkey	Oral-capsule	
Rhesus Monkey	Oral-capsule	

Secondary		
·		
Secondary		
Secondary		
•		
C		
Secondary		

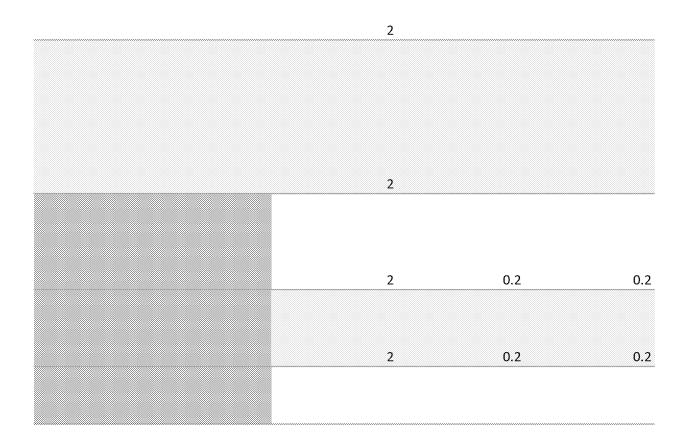
2190
2190

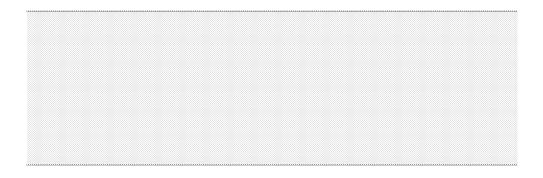


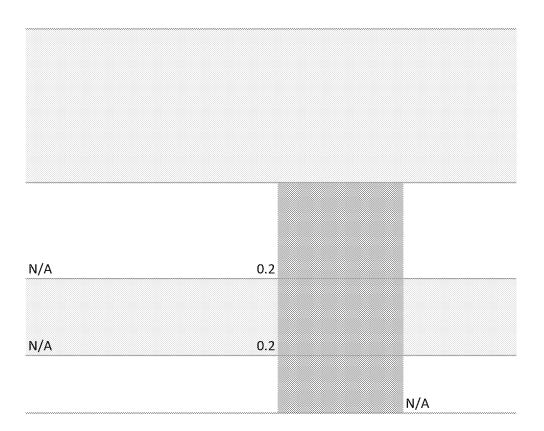




2



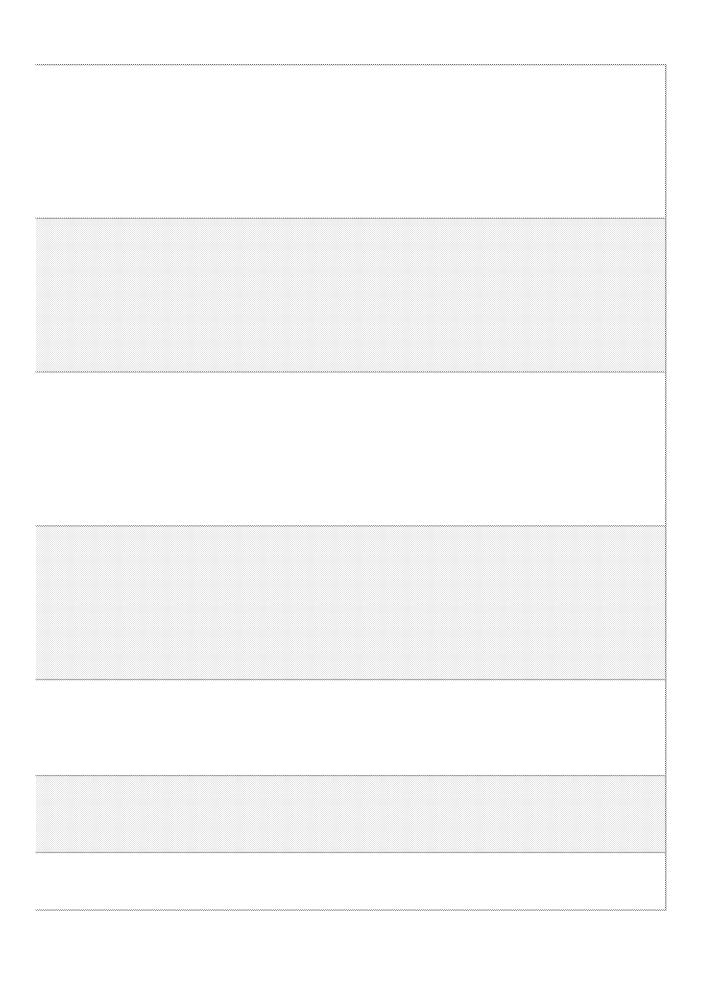




Dosed on GD16 and GD180, 1 mg/kg-day										
Dosed on GD16 and GD180, 1 mg/kg-day										
Dosed on GD16 and GD180, 1 mg/kg-day										
Dosed on GD16 and GD180, 1 mg/kg-day										
Adult male rhesus monkeys (5-7 years old	d) were	dosed w	rith 200 (ug/kg-da	v for 6 m	onths. L	.OAEL is k	pased on		
histopathological lesions in testes, epidid	-				-					1).
Adult male rhesus monkeys (5-7 years old	d) word	docada	iith 200 i	ua/ka da	u for 6 m	onthe I	OAEL is k	sacad an	cianifica	inthi
decreased testicular volume (described in				ag/kg-ua	y 101 6 11	ionuis. L	OAEL IS I	ased Off	Significa	Huy
Adult male rhesus monkeys (5-7 years old		dosed w	rith 200 (ug/kg-da	y for 6 m	onths. T	ext state	s that the	ere was	no
effect on testosterone levels (data not sh	own).									

22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21

 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	24
 22	0.9	0.094	0.154	10	21
 168	0.9	0.199	0.054	1	154
168	0.9	0.199	0.054	1	154
168	0.9	0.199	0.054	1	154
 TOO	U.J	0.133	0.034		134



Ahmad et al.	2001	2151442
Pratheepa Kumari et al.	2011	2151606
Anderson et al.	1991	2152038
Andric et al.	2000	2152151
Baumann et al.	1983	2153457
Baumann et al.	1983	2153457
Baumann et al.	1983	2153457
Baumann et al.	1983	2153457
Baumann et al.	1983	2153457
Berdanier et al.	1975	2153835
Berdanier et al.	1975	2153835
Borlak et al.	1996	2154830
Borlak et al.	1996	2154830
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Branchi et al.	2005	2155131
Drunem et al.	2003	2133131
Branchi et al.	2005	2155131
Bruckner et al.	1974	2155504
Bruckner et al.	1974	2155504
Bruckner et al.	1974	2155504

spermatagonia in testis							
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maternal and neonatal hepatic cytoch							
litter size, litter number	nome F-430, cytt	Julionie D3,	and cytocino	me-c-(r-43c	// reductase	e, CIFIAI,	CIFIAZ
litter size, litter number							
sex ratio							
sex ratio							
pup weight at birth, pup body weight pup weight at birth, pup body weight							
serum T4							
open field activity (locomotion, rearing	ng)						
open field activity (habituation, thigm	actoric)						
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gestation length							
gestation length							

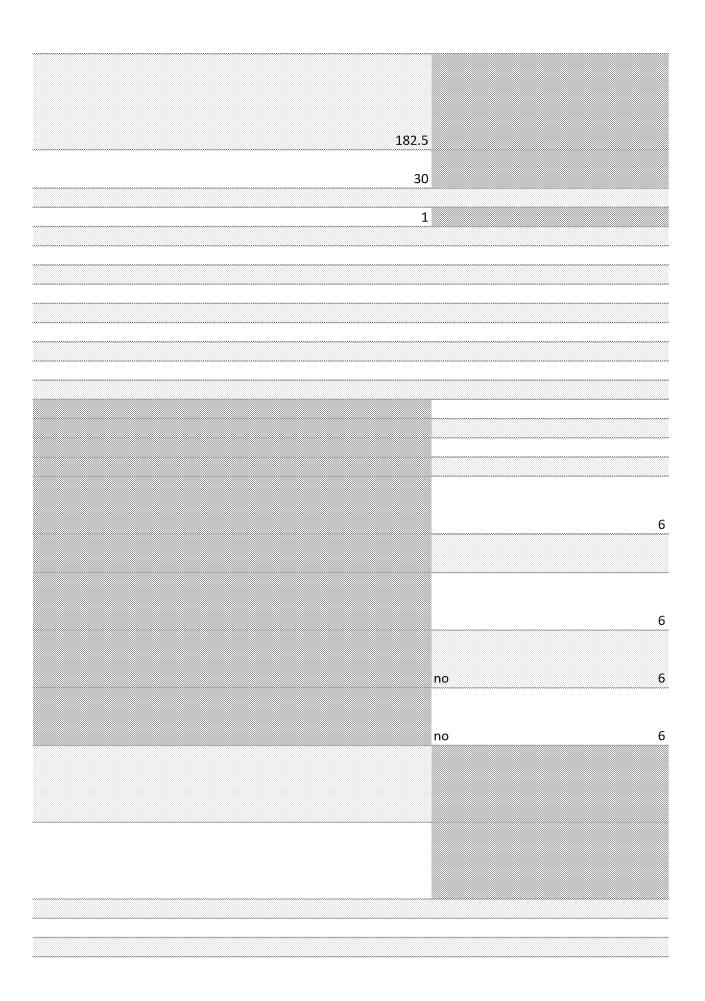
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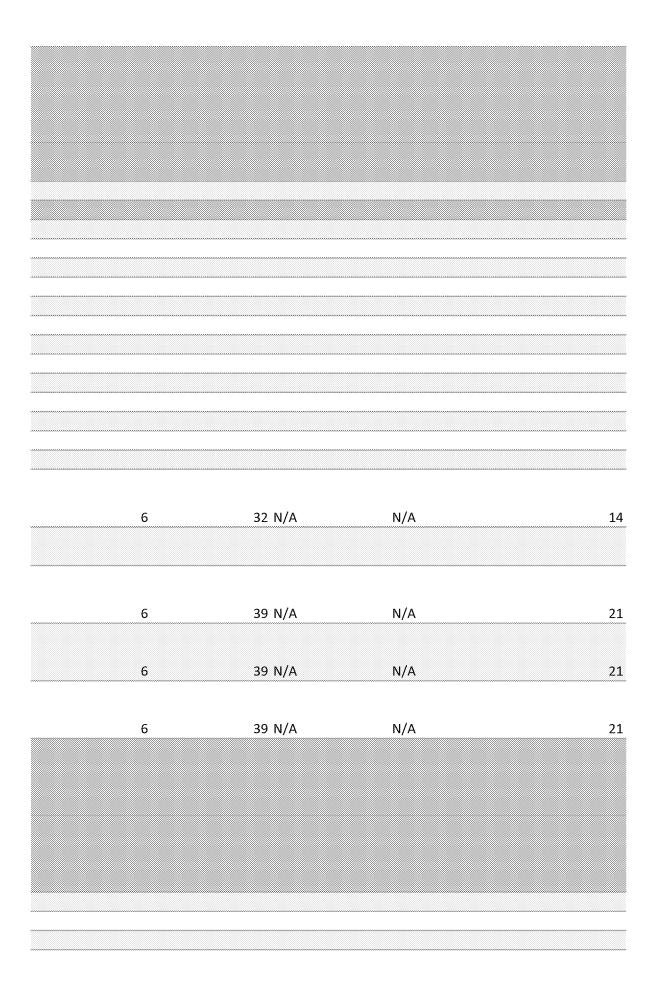
Sperm/semen parameters	Reproductive
Brain-histological, structural, morphological	Nervous System
Liver Enzyme Induction	Hepatobiliary
Sex hormone levels, male	Reproductive
Cholesterol	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Offspring mortality	Developmental
Offspring mortality	Developmental
Sex ratio	Developmental
Sex ratio	Developmental
Weight and size (early life)	Developmental
Weight and size (early life)	Developmental
<u> </u>	
HPT hormones	Endocrine
THE THOMAS	Z. Tadori T. C.
Activity level	Nervous System
7 Gurrey Cover	Hervous system
Emotional state/affective behavior	Nervous System
Emotional state/ affective behavior	Nervous system
Gestation length and preterm birth	Reproductive
Gestation length and preterm birth	Reproductive
Contation langth and nectors hinth	Paproductiva
Gestation length and preterm birth	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Porphyrins	Hepatobiliary

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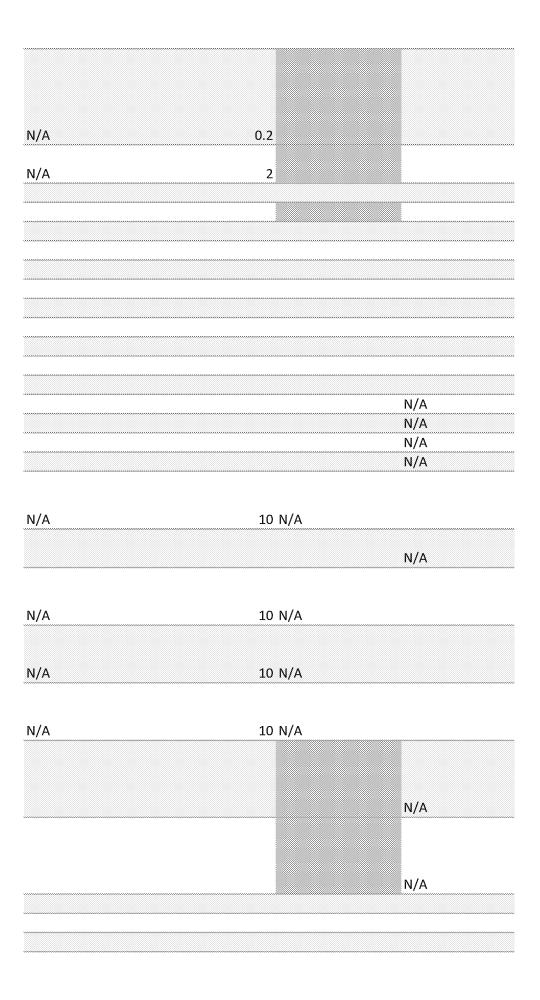
Rhesus Monkey	Oral-capsule
Rat	Injection-ip
Mouse	Injection-ip
 Rat	Injection-ip
 Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-gavage
 Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-CHECK
Rat	Oral-CHECK
 Rat	Injection-ip
 Rat	Injection-ip
 Mouse	Oral-gavage
 Mouse	Oral-syringe
 Mouse	Oral-gavage
 Mouse	Oral-syringe
Mouse	Oral-gavage
Mouse	Oral-gavage
Mouse Mouse	
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Mouse	Oral-syringe
Mouse Mouse	Oral-syringe Oral-gavage/syringe
Mouse	Oral-syringe
Mouse Mouse	Oral-syringe Oral-gavage/syringe
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Primary			2190
Primary			90
Primary			
Secondary			
Secondary			
Primary			
Primary			





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108 2 108 2			
	2	10	10
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Adult male rhesus monkeys (5-7 years old spermatogenic activity (described for the			
Adult male rats dosed for 30 d; 90 d of ag	ge. Authors report neurodege	neration in PCB exposed rats.	
Mouse dams exposed GD6-PND21; T4 lev	vels altered at PND22		
Litter size NR; use default value Mouse dams exposed GD6-PND21; open Litter size NR; use default value	field locomotion altered at PI	ND90	
Mouse dams exposed GD6-PND21; open Litter size NR; use default value	field habituation altered at P	ND90	
Mouse dams were dosed with 10 mg/kg-from a syringe). Text states that there wa			ration (drinking
Mouse dams were dosed with 10 mg/kg-from a syringe). Text states that there wa			ration (drinking

168	0.9	0.199	0.054	1	154
22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
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22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
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18	0.9	0.229	0.264	6	21
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18	0.9	0.229	0.264	6	21
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18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	6.5	0.034	0.134	10	Z1

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Adequate	Good	Adequate
Adequate Adequate	Good Good	Adequate Adequate
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Adequate	Good	Adequate

Bruckner et al.	1974	2155504
Carter and Mercer	1984	2156506
Carter	1983	2156515
Cecil et al.	1973	2156654
Cecil et al.	1973	2156654
Cecil et al.	1973	2156654
Lee et al.	2007	2157496
Lee et al.	2007	2157496
Lee et al.	2007	2157496
Lee et al.	2007	2157496
Lee et al.	2007	2157496
Chu et al.	2005	2157748
Chu et al.	2005	2157748

hepatic microsomal enzymatic parameters (hydroxylation activity, N-o	demethylation activity, cytochrome P450, cytoch	ıror
liver weight		
relative wet liver weight		000000000
liver lipidsliver weightliver vitamin A concentration		
liver lipidsliver weightliver vitamin A concentration		000000000
liver lipidsliver weightliver vitamin A concentration		
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number of implantation sites, litter size, number of pregnancy index		
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number of corpora lutea		
number of implantation sites, litter size, number of pregnancy index		
number of implantation sites, fitter size, framber of pregnancy mack		
timing of vaginal opening, age of first vaginal estrus		
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brain weight		
uterus weight, ovary weight		

Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary

Estrous/menstrual cycle characteristics	Reproductive	
Male fertility	Reproductive	

Ovulation	Reproductive	
Pregnancy/conception rate	Reproductive	

Pubertal development, female	Reproductive	
Brain-histological, structural, morphological	Nervous System	
Reproductive organ size/weight, female	Reproductive	

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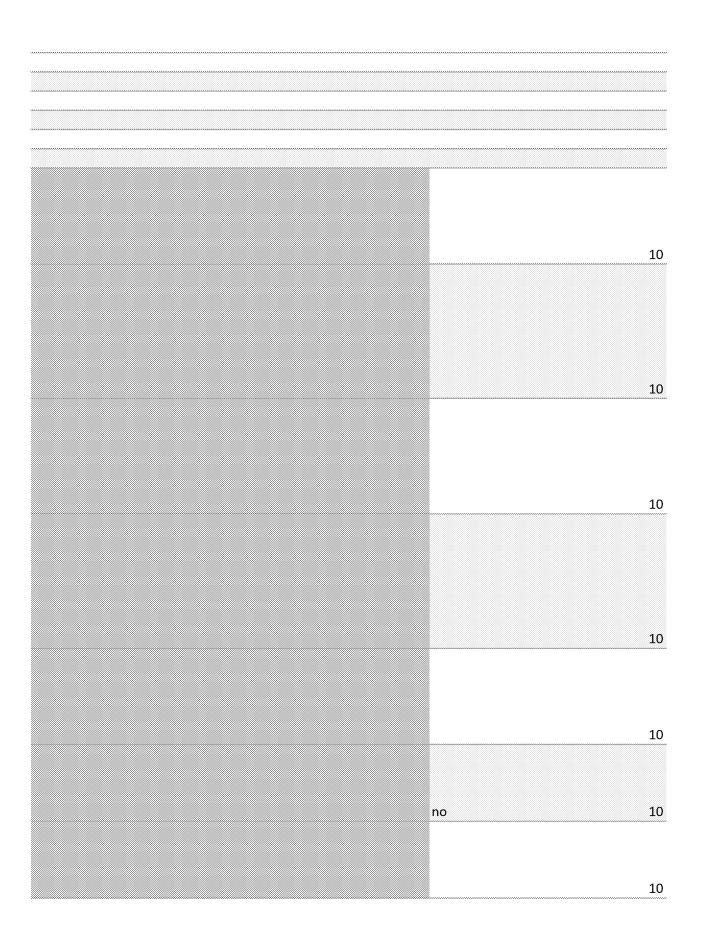
 Rat	Injection-ip
Rat	Oral-diet
 Rat	Oral-diet

Rat	Oral-gavage	
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Rat	Oral-gavage	

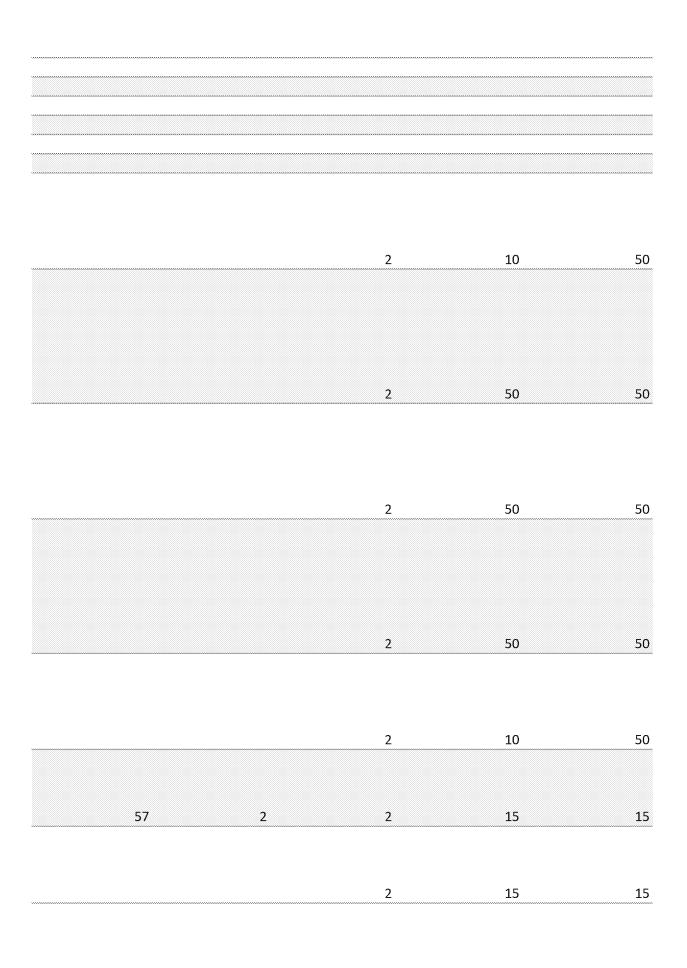
Rat	Oral-gavage	
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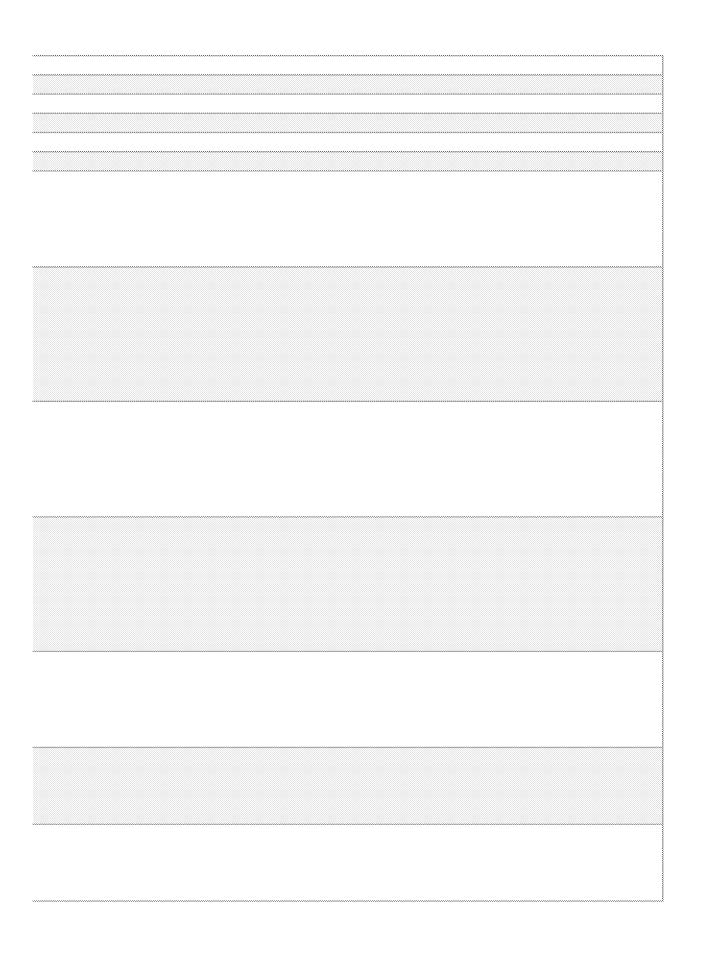
8	43 N/A	N/A	2
8	43 N/A	N/A	2
O	43 IV/A	NYA	2
8	43 N/A	N/A	2
8	43 N/A	N/A	2
8	43 N/A	N/A	2
	45 N/A	N/A	2
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	10	EO N/A	
	10	50 N/A	
N/A		50 N/A	
IV/A		30 N/A	
N/A		50 N/A	
N/A		50 N/A	
N/A		10 N/A	
N/A		15 N/A	
NI/A		1E N/A	
N/A		15 N/A	

Rat dams dosed from GD 8 - PND 21 to 0, 10, or 50 mg/kg-day, and reproductive effects were evaluated in F1 offspring. Default litter size used. LOAEL based on significantly increased duration of estrous cycle and day of estrous in F1
females (Table 1).
Rat dams dosed from GD 8 - PND 21 to 0, 10, or 50 mg/kg-day, and reproductive effects were evaluated in F1 offspring.
Only the 50 mg/kg-day animals were used in the mating trial. Default litter size used. LOAEL based on significant decrease in implantation sites and live fetuses when PCB-exposed F1 males were mated with control females (Table 2).
Rat dams dosed from GD 8 - PND 21 to 0, 10, or 50 mg/kg-day, and reproductive effects were evaluated in F1 offspring.
Only the 50 mg/kg-day animals were used in the mating trial. Default litter size used. LOAEL based on significant decrease in corpora lutea in PCB-exposed F1 females mated to control males (Table 2).
Rat dams dosed from GD 8 - PND 21 to 0, 10, or 50 mg/kg-day, and reproductive effects were evaluated in F1 offspring. Only the 50 mg/kg-day animals were used in the mating trial. Default litter size used. LOAEL based on significant
decrease in implantation sites and live fetuses in PCB-exposed F1 females mated to control males (Table 2).
Rat dams dosed from GD 8 - PND 21 to 0, 10, or 50 mg/kg-day, and reproductive effects were evaluated in F1 offspring.
Default litter size used. LOAEL based on signficantly delayed vaginal opening and age at first estrous (Table 1).
Rat dams dosed with 15 mg/kg-day from GD 1 - PND 23. Litters culled to 8 pups at PND 4; use default litter size. LOAEL
based on significantly decreased absolute and relative brain weight in F1 pups at PND 35 (Table 1).
Rat dams dosed with 15 mg/kg-day from GD 1 - PND 23. Litters culled to 8 pups at PND 4; use default litter size. LOAEL
based on significantly decreased absolute uterus weight in F1 pups at PND 35 (Table 1).

 22	0.9	0.094	0.154	10	21
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 22 22	0.9 0.9	0.094 0.094	0.154	10 10	21
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 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



Chu et al.	2005	2157748
Chu et al.	2005	2157748
Chu et al.	2005	2157748
Chu et al.	2005	2157748
Chu et al.	2005	2157748
Chu et al.	2005	2157748
Chu et al.	2005	2157748
Franklin et al.	2005	2159856
Franklin et al.	2005	2159856
Muthuvel et al.	2006	2159859
Muthuvel et al.	2006	2159859
	2002	24.60002
Donahue et al.	2002	2160093
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Donahue et al.	2002	2160093
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Sridhar et al.	2004	2162224
Sridhar et al.	2004	2162224

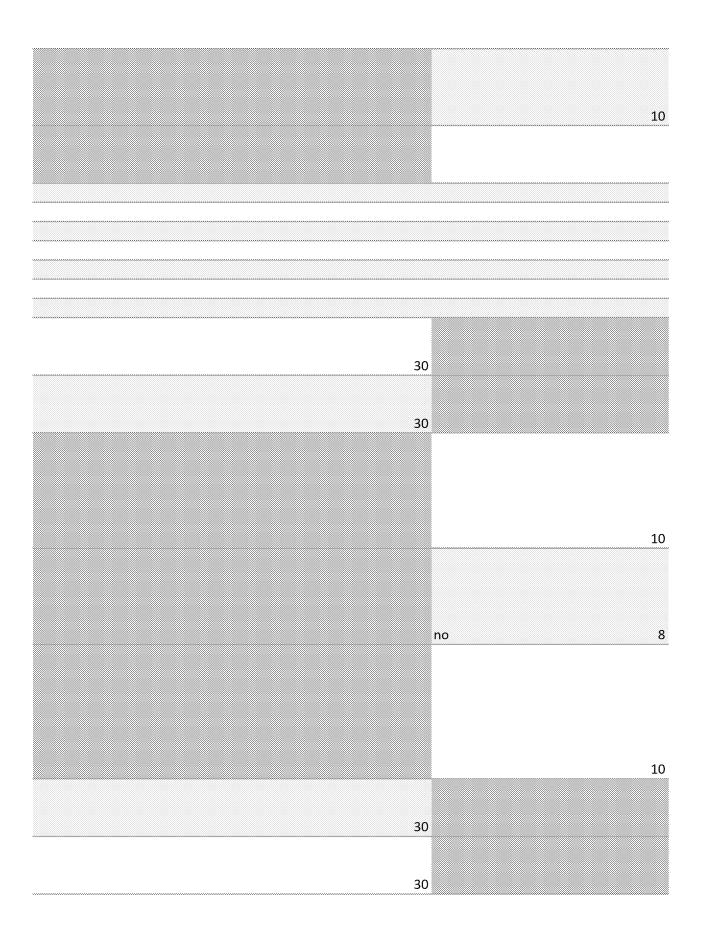
testes weight, epididymis weight			
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hepatic ironliver porphyrins			
hypothalamus weight			
serum LH, FSH			
offspring mortality			
copulation behavior			
time to pregnancy (sperm positive vaginal smear)			
time to pregnancy (sperm positive vaginar smear)			
ventral prostatic weight			
serum testosterone and estradiol			

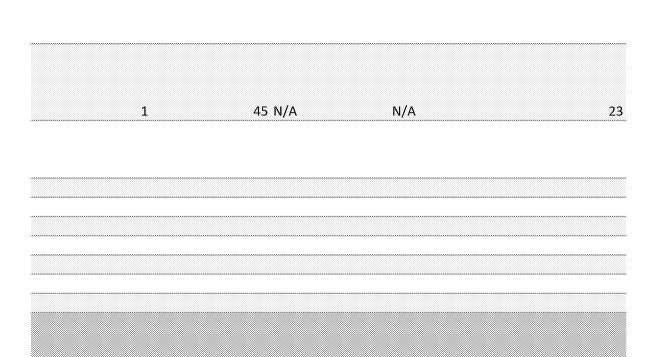
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Reproductive organ size/weight, male	Reproductive
Sperm/semen parameters	Reproductive
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Micronutrients	Hepatobiliary
Porphyrins	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Sex hormone levels, male	Reproductive
Offspring mortality	Developmental
Sexual behavior	Nervous System
Time-to-pregnancy and couple fertility	Reproductive
Reproductive organ size/weight, male	Reproductive
Sex hormone levels, male	Reproductive

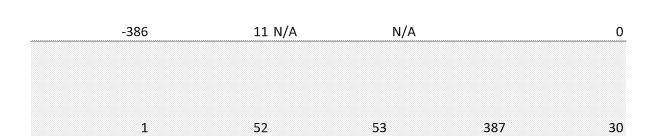
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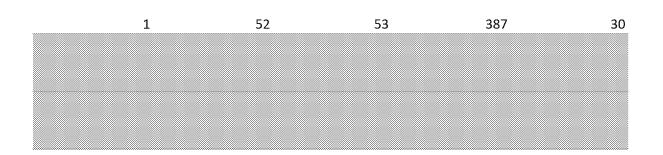
 Rat	Oral-cookie
Rat	Oral-cookie
Rat	Oral-cookie
 Rat	Oral-cookie
Mouse	Injection-ip
 Mouse	Injection-ip
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Rat	Oral-diet
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Rat	Oral-diet
Rat	Oral-diet Oral-diet
Rat	Oral-diet
Rat	Oral-diet Oral-diet
Rat	Oral-diet Oral-diet

Secondary	
Secondary	
Primary	90
Primary	90
Secondary	
Secondary	
Secondary	
Secondary	
Primary	90
Primary	 90









2	15	15
2	2	2
2	2	2

		3	1.25	25
387	5	3	1.25	25

3	1.25	25
2	2	2
2	2	2

N/A	15 N/A	
	•	
		N/A
J/A	2	
I/A	2	

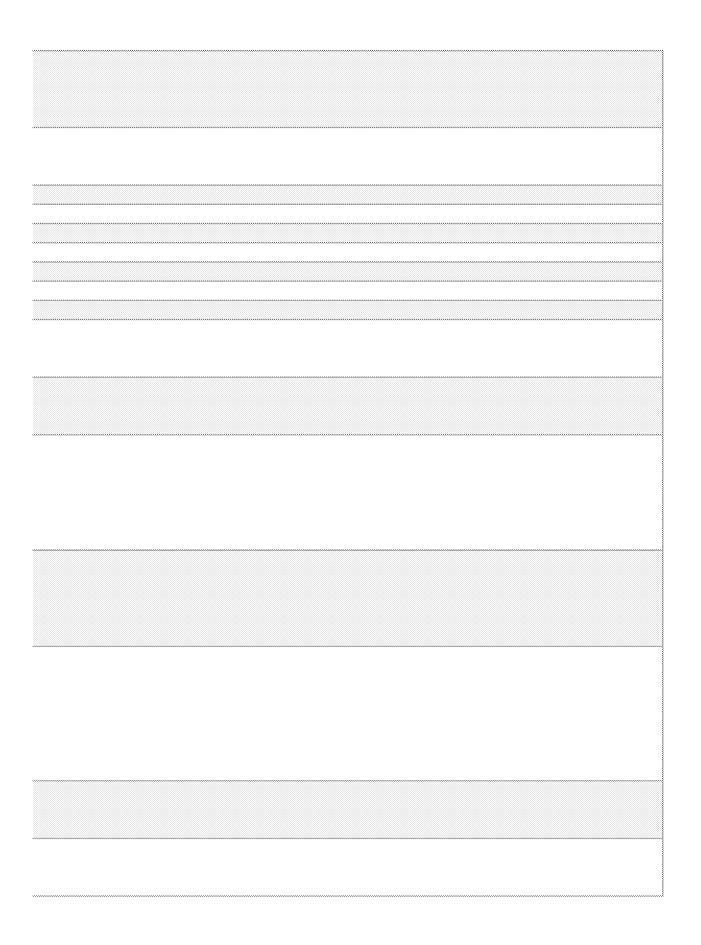
N/A	1.25 N/A	
1.25	25	25

N/A	1.25	1.25	
N/A	2		
N/A	2		

Rat dams dosed with 15 mg/kg-day from GD 1 - PND 23. Litters culled to 8 pups at PND 4; use default litter size. LOAEL based on significantly decreased absolute testis weight in F1 pups at PND 35 (Table 1).
Rat dams dosed with 15 mg/kg-day from GD 1 - PND 23. Litters culled to 8 pups at PND 4. Text says no effect on sperm function in testis homogenates of F1 pups.
Adult male rats (90 d of age) were injected with 2 mg/kg-day ip for 30 d. LOAEL is based on altered hypothalamus weight (Table 1).
Adult male rats were injected with 2 mg/kg-day ip for 30 days. LOAEL is based on decreased LH and FSH at necropsy (Figure 2).
Rat dams were dosed with 1.25 or 25 ppm beginning at GD1. F1 rats were exposed continuously until F2 mating at 1 year of age. Litter size was not possible to ascertain because no litters were produced; use default litter size. Offspring mortality occurred by GD11.
Rat dams were dosed with 1.25 or 25 ppm beginning at GD1. Litters were culled to 8 at PND3. F1 rats were removed from maternal cages at PND 30 and were continued on the maternal diet until about 1 year of age, and then a mating trial was conducted.
Rat dams were dosed with 1.25 or 25 ppm beginning at GD1. Litters were culled to 8 at PND3; use default litter size. F1 rats were removed from maternal cages at PND 30 and were continued on the maternal diet until about 1 year of age, and then a mating trial was conducted. LOAEL based on significantly increased time to presence of sperm in vaginal smear (Figure 1).
Adult male rats were dosed with 2 mg/kg-day for 30 days. LOAEL based on significantly decreased absolute ventral prostate weight (Table 1).
Adult male rats were dosed with 2 mg/kg-day for 30 days. LOAEL based on significantly decreased serum estradiol and testosterone at necropsy (Table 2).

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154 0.154	10	21
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	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21



Kim et al.	2001	2165827
Kim et al.	2001	2165827
Kim et al.	2001	2165827
Kim	2001	2166250
Kim	2001	2166250
Mochizuki et al.	2001 2001	2166250 2166306
Mochizuki et al.	2001	2166306
Mochizuki et al.	2001	2166306
Hitomi and Yoshida	1991	2166444
Hitomi and Yoshida	1991	2166444
Hitomi and Yoshida	1991	2166444
Hitomi and Yoshida Hitomi and Yoshida	1989 1989	2166445 2166445
Hitomi and Yoshida	1989	2166445
Hitomi and Yoshida	1989	2166445
Hitomi and Yoshida	1989	2166445

testis histopathology						
testis weight						
serum testosterone,	serum LH					
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sertoli cell number						
sertoli cell number						
sertoli cell number testis weights						
testis weights						
testis weights sperm production hepatic gene express						
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sperm production hepatic gene express hepatic gene express hepatic gene express activities of aminopy	ion of apo A-I, ion of apo A-I, rine N-demeth	CYP7A1, and m CYP7A1, and m ylase, 7-ethoxy	alic enzymeliver alic enzymeliver coumarin O-deet	lipidsliver weig lipidsliver weig thylase, aniline	ht (relative) ht (relative) hydroxylase, gluc	***************************************
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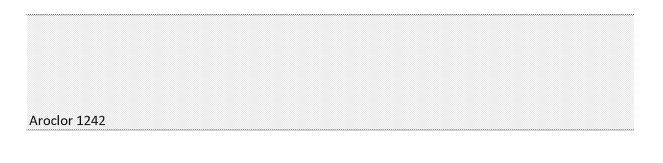
fecal bile acidsliver cholesterol, plasma cholesterolmicrosomal enzyme activity (HMG-CoA)liver total lipidsliver weight fecal bile acidsliver cholesterol, plasma cholesterolmicrosomal enzyme activity (HMG-CoA)liver total lipidsliver weight fecal bile acidsliver cholesterol, plasma cholesterolmicrosomal enzyme activity (HMG-CoA)liver total lipidsliver weight fecal bile acidsliver cholesterol, plasma cholesterolmicrosomal enzyme activity (HMG-CoA)liver total lipidsliver weight

Reproductive organ histopathology, male	Reproductive	

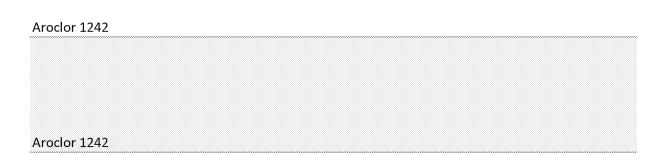
Reproductive organ size/weight, male	Reproductive	
Sex hormone levels, male	Reproductive	

Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive

Sperm/semen parameters	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Bile Acid Content/Excretion	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary



Aroclor 1242				
Aroclor 1242	 	 	 	



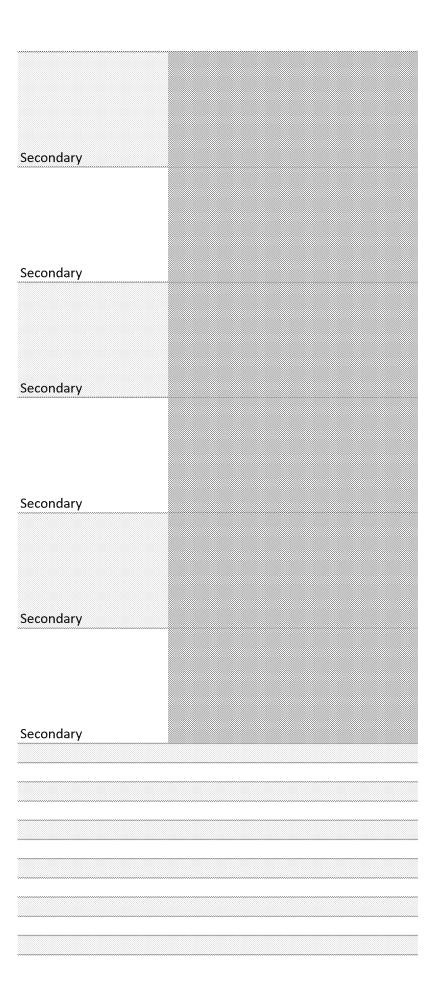
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Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1248	

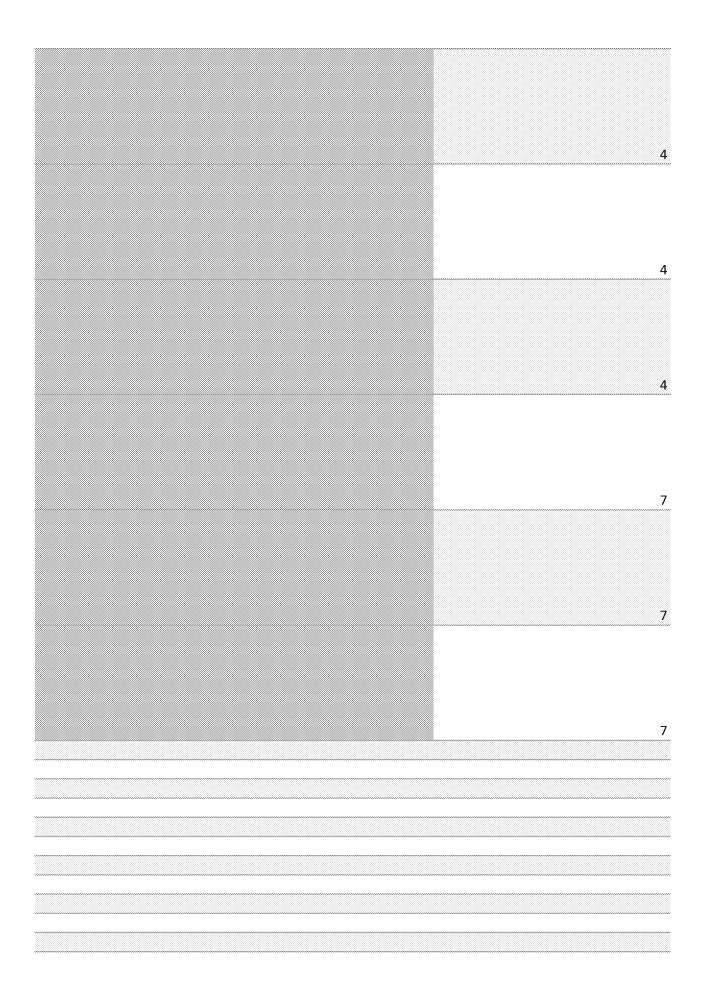
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Rat	Injection-sc
Rat	Injection-sc

Rat	Injection-sc	
Rat	Injection-sc	

Rat	Injection-sc
Rat	Oral-diet





22	43 N/A	N/A	21
22	40.01/4	21/4	24
 22	43 N/A	N/A	21
 22	43 N/A	N/A	21
22	43 N/A	N/A	21
22	43 N/A	N/A	21
 ZZ	45 N/A	IN/A	21
22	43 N/A	N/A	21

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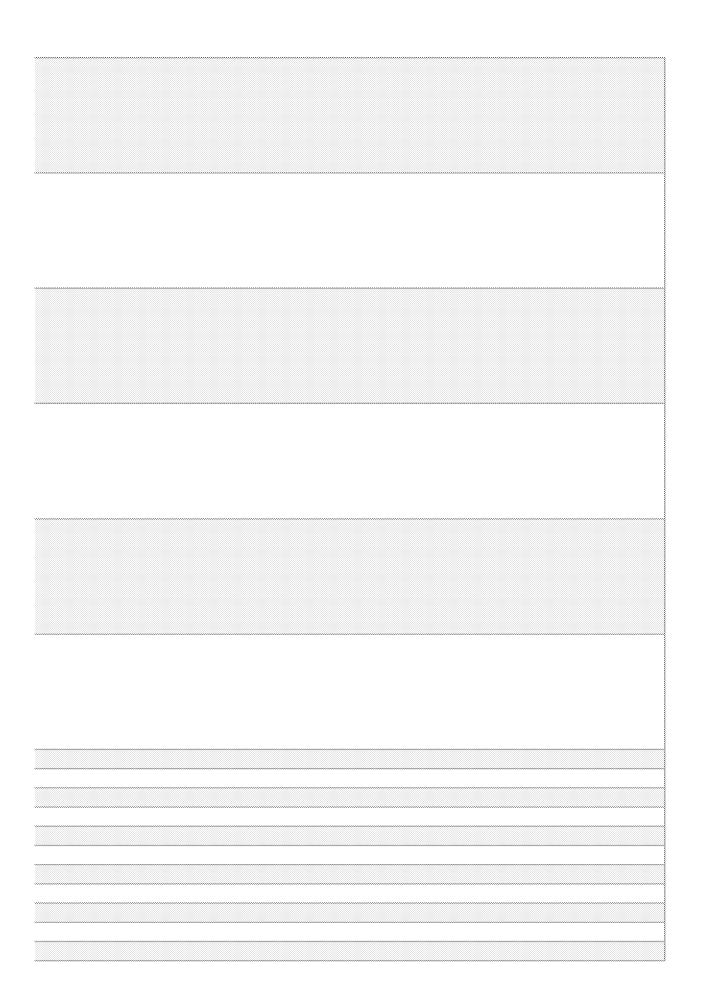
	0.0065	0.065 N/A	
N/A		0.0065 N/A	

N/A	See notes	N/A
NI/A	Saa natas	N/A
N/A	See notes	N/A

N/A	See notes	N/A	

Rat dams injected 2x/week from parturition until weaning (PND21); F1 exposed via lactation
0, 8, 80 μg/dam-day; average weight of a dam reported to be 350 g
After parturition, litter sizes were adjusted to 3-4 pups per mother
Rat dams injected 2x/week from parturition until weaning (PND21); F1 exposed via lactation
0, 8, 80 μg/dam-day; average weight of a dam reported to be 350 g
After parturition, litter sizes were adjusted to 3-4 pups per mother
Rat dams injected 2x/week from parturition until weaning (PND21); F1 exposed via lactation 0, 8, 80 µg/dam-day; average weight of a dam reported to be 350 g
After parturition, litter sizes were adjusted to 3-4 pups per mother
Rat dams injected daily from parturition until weaning (PND 21); F1 exposed via lactation 0, 0.8, 1.6 mg/dam
LOAEL is 0.8 µg/dam; not recorded in LOAEL column because the dose is not in mg/kg-day
After birth, litter size was adjusted to 5-7
Dams injected daily from parturition until weaning (PND 21); F1 exposed via lactation
0, 0.8, 1.6 mg/dam
LOAEL is 0.8 μg/dam; not recorded in LOAEL column because the dose is not in mg/kg-day
After birth, litter size was adjusted to 5-7
Dams injected daily from parturition until weaning (PND 21); F1 exposed via lactation
0, 0.8, 1.6 mg/dam
LOAEL is 0.8 µg/dam; not recorded in LOAEL column because the dose is not in mg/kg-day After birth, litter size was adjusted to 5-7
Arter birtif, itter size was adjusted to 5 7

22	0.0	0.004	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
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22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



Horio et al.	1987	2166872
Horio et al.	1987	2166872
Horio et al.	1987	2166872
Horio et al.	1987	2166872
Horio et al.	1989	2166875
Horio et al.	1989	2166875
Horio et al.	1989	2166875
Horio et al.	1989	2166875
Horio et al.	1989	2166875
Horio et al.	1989	2166875
Mochizuki et al.	2000	2166976
Mochizuki et al.	2000	2166976
Mochizuki et al.	2000	2166976
Mochizuki et al.	2000	2166976
Itokawa et al.	1976	2167868
Itokawa et al.	1976	2167868
Itokawa et al.	1976	2167868
Itokawa et al.	1976	2167868
Itokawa et al.	1976	2167868
Mochizuki et al.	1998	2168260
Mochizuki et al.	1998	2168260
Mochizuki et al.	1998	2168260
Johnstone et al.	1974	2168662
Johnstone et al.	1974	2168662
Kato et al.	1978	2169479
Kato et al.	1978	2169479
Kato et al.	1978	2169479
Kato et al.	1978	2169479
Kato et al.	1978	2169479
Kato et al.	1980	2169480

Kato et al.	1980 1980	2169480 2169480
Kato et al.		
Kato et al.	1980 1989	2169480 2169481
Kato et al.	1989	2169481
Kimura et al.	1976	2170282
Kimura et al.	1976	2170282
Kosinova et al.	1985	2170997
Kosinova et al.	1985	2170997
Oda et al.	1991	2172265
Oda et al.	1991	2172265
Nath et al.	1991	2172517
Nath et al.	1991	2172517
Fanini et al.	1990	2172957
Fanini et al.	1990	2172957
Fanini et al.	1990	2172957

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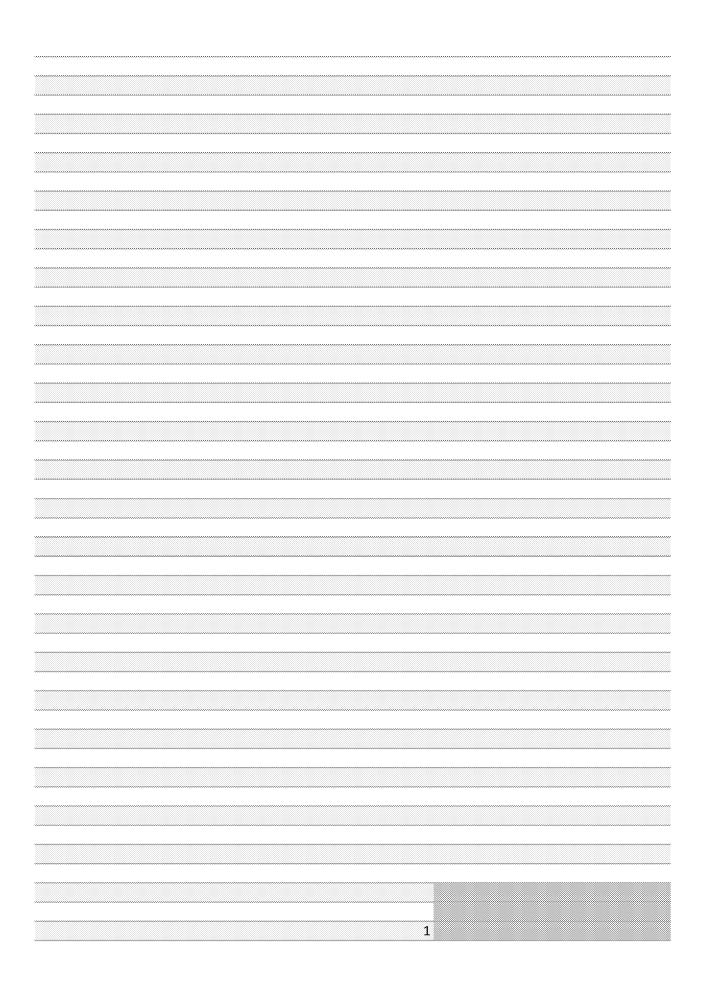
exploratory activity

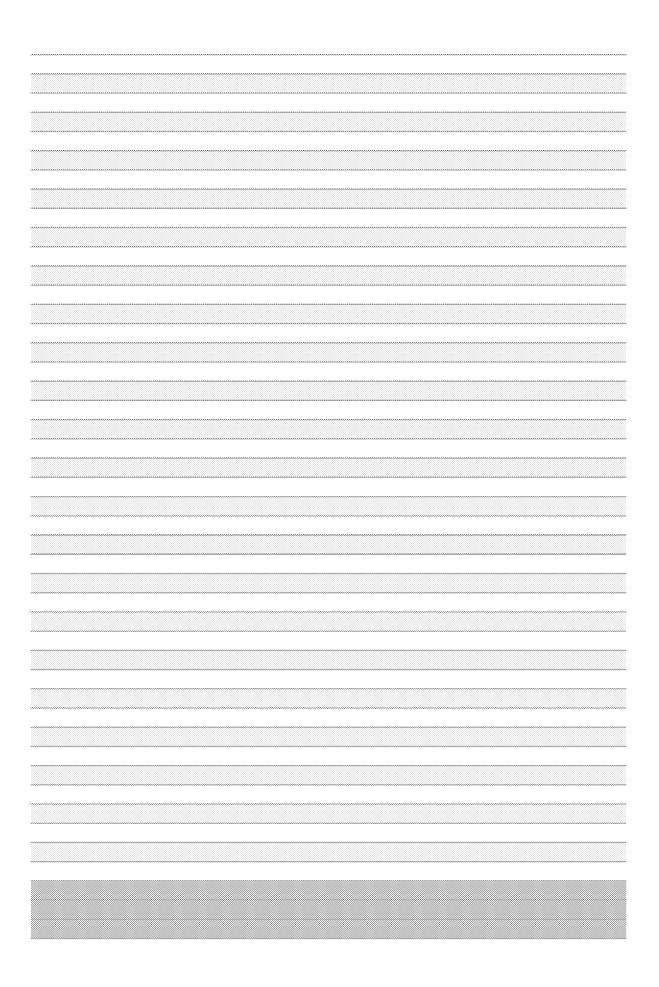
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Bile Acid Content/Excretion	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Cell Proliferation	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Activity level	Nervous System
Motor function	Nervous System
Cognitive function	Nervous System
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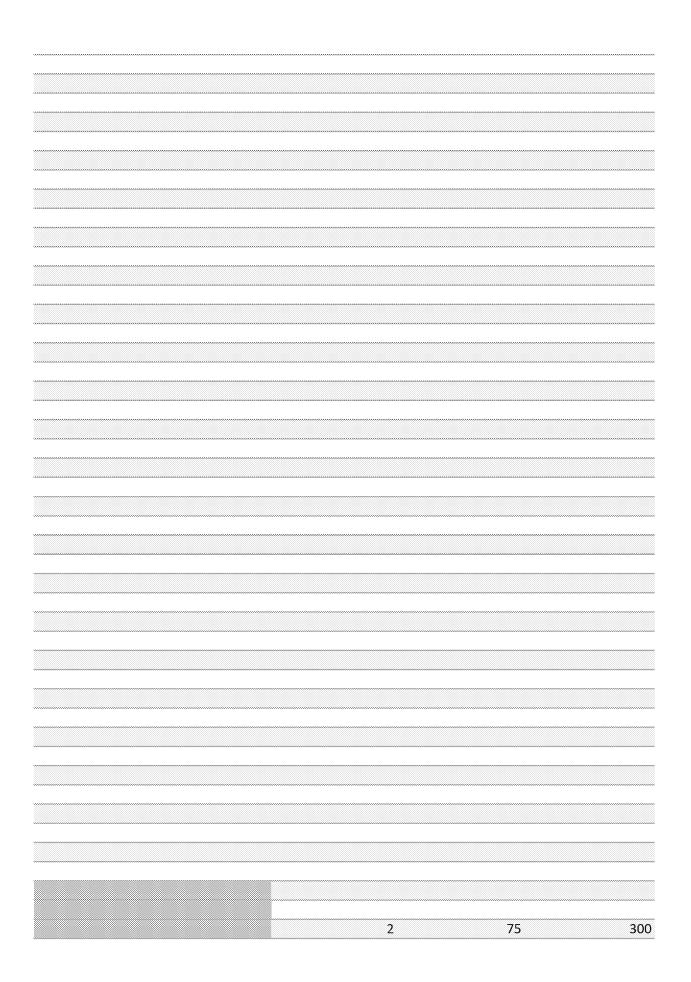
Aroclor 1248
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Kanechlor 400
Kanechlor 400
Delor 105
Delor 105
Aroclor 1248
Aroclor 1248
Aroclor 1254
Aroclor 1254
Fenclor 54
Fenclor 54
Fenclor 54

 Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
	Oral-diet
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Rat	CHECK
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Rat	CHECK
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Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-CHECK
 Rat	Oral-CHECK
Rat	Injection-ip
 Rat	Injection-ip
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	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
***************************************	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21



Fanini et al.	1990	2172957
Fanini et al.	1990	2172957
Oda et al.	1989	2173181
Oda et al.	1989	2173181
Oda et al.	1989	2173181
Lipsky et al.	1978	2173571
Lipsky et al.	1978	2173571
Lipsky et al.	1978	2173571
Elpsky cc di.	1370	21,33,1
Madej et al.	1992	2174795
	1986	2174826
Nakagawa et al.	1986	2174826
Nakagawa et al.		
Nakagawa et al.	1986	2174826
Narbonne et al.	1984	2175650
Mehlman et al.	1975	2176144
Mehlman et al.	1975	2176144
Mehlman et al.	1975	2176144
Mehlman et al.	1974	2176146
Mehlman et al.	1974	2176146
Merson and Kirkpatrick	1976	2176345
Merson and Kirkpatrick	1976	2176345
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Merson and Kirkpatrick Quazi et al.	1976 1983	2176345 2176364
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Merson and Kirkpatrick Quazi et al. Quazi et al. Quazi et al. Quazi et al. Horio and Yoshida Horio and Yoshida Horio and Yoshida	1976 1983 1983 1983 1983 1982 1982 1982	2176345 2176364 2176364 2176364 2176364 2176910 2176910
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Merson and Kirkpatrick Quazi et al. Quazi et al. Quazi et al. Quazi et al. Horio and Yoshida Horio and Yoshida Horio and Yoshida Mochizuki et al. Mochizuki et al. Mochizuki et al. Mochizuki et al.	1976 1983 1983 1983 1983 1982 1982 1982 1992 1992 1992	2176345 2176364 2176364 2176364 2176910 2176910 2176964 2176964 2176964 2176964
Merson and Kirkpatrick Quazi et al. Quazi et al. Quazi et al. Quazi et al. Horio and Yoshida Horio and Yoshida Horio and Yoshida Mochizuki et al. Narbonne	1976 1983 1983 1983 1982 1982 1982 1992 1992 1992 1992 1992	2176345 2176364 2176364 2176364 2176910 2176910 2176964 2176964 2176964 2176964 2177631
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mounting

aggressive behavior, social activity, indifference

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liver MFOSelectron microscopyliver weight

liver MFOSelectron microscopyliver weight

liver MFOSelectron microscopyliver weight

urinary excretion of oestrone sulfate

bile contentliver cholesterol/proteincytochrome P450 levels

bile contentliver cholesterol/proteincytochrome P450 levels

bile contentliver cholesterol/proteincytochrome P450 levels

drug metabolizing enzyme, cytochrome P-450

liver enzyme activity (phosphoenolpyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate carboxykinase (PEPck) in normal liver and the activities of pyruvate ca

liver gluconeogenic enzyme activitiesliver weight

liver gluconeogenic enzyme activitiesliver weight

litter size

pairs having at least one or two litters, total litters, mean number of litters for all pairs begun on experiment

cholesterolliver lipidsliver weightliver ascorbic acid

enzyme activity (hepatic UDPglucose dehydrogenase and L-gulonolactone oxidase)liver weighttissue level of ascorbic acidenzyme activity (hepatic UDPglucose dehydrogenase and L-gulonolactone oxidase)liver weighttissue level of ascorbic acidenzyme activity (hepatic UDPglucose dehydrogenase and L-gulonolactone oxidase)liver weighttissue level of ascorbic acideve liver aniline hydroxylase, liver aminopyrine N-demethylase activityliver lipidsliver weight (relative)liver ascorbic acideve liver aniline hydroxylase, liver aminopyrine N-demethylase activityliver lipidsliver weight (relative)liver ascorbic acideve liver aniline hydroxylase, liver aminopyrine N-demethylase activityliver lipidsliver weight (relative)liver ascorbic acideve liver microsomal protein levels, aminopyrine N-demethylase activity, aniline hydroxylase activity, cytochrome b5 activity liver and serum levels of cholesteroltriglyceride, nonesterified fatty acid, phospholipid, total liver lipidsliver weight liver and serum levels of cholesteroltriglyceride, nonesterified fatty acid, phospholipid, total liver lipidsliver weight

Sexual behavior	Nervous System
Social behavior/development	Nervous System
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Sex hormone levels, female	Reproductive
Bile Acid Content/Excretion	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary

Pregnancy/conception rate	Reproductive
Time-to-pregnancy and couple fertility	Reproductive
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary

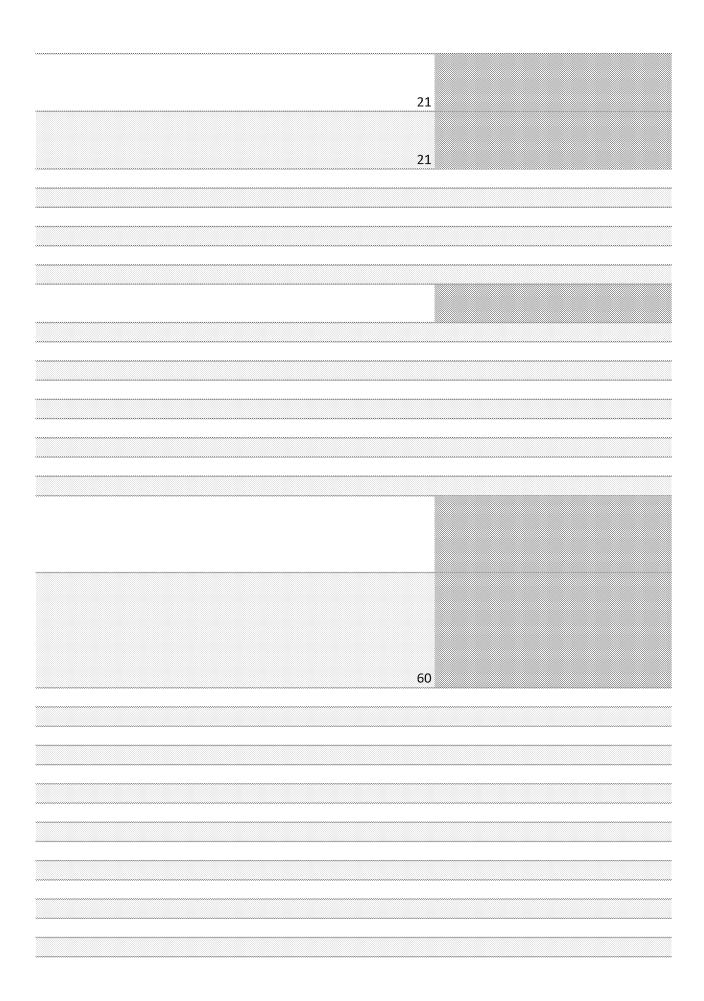
Fenclor 54	
Fencior 54	
Aroclor 1248	
Aroclor 1248	
Aroclor 1248	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Clophen A50	
Kanechlor 400	
Kanechlor 400	
Kanechlor 400	
Phenochlor DP6	
Aroclor 1254	

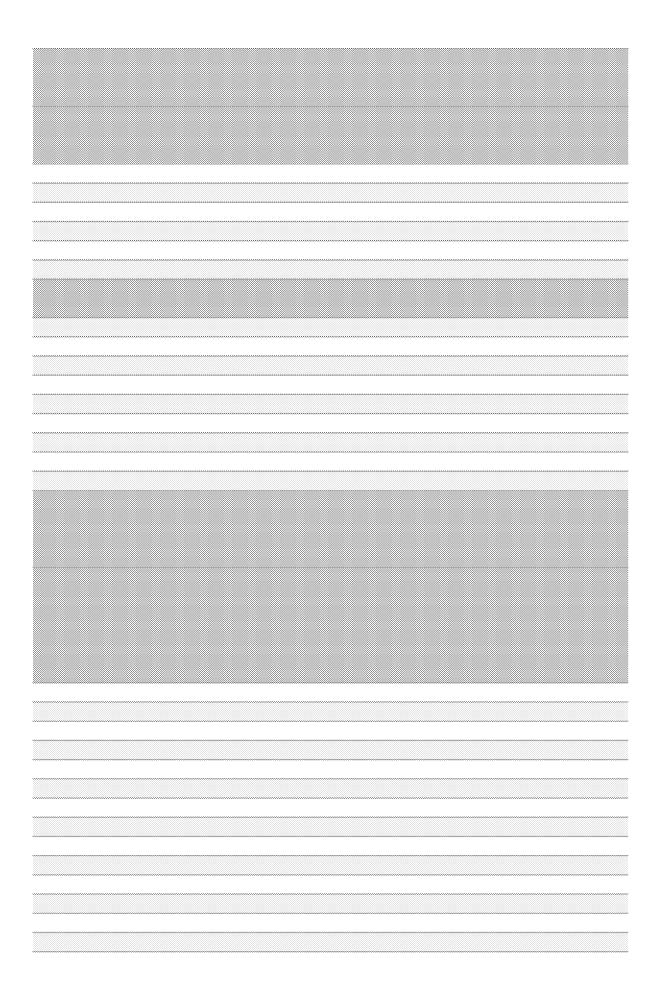
Aroclor 1254									
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Aroclor 1254									
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Aroclor 1248		 							
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PCBs	 								
Phenochlor DP6		 	 	 	 		 	 	
Kanechlor 500		 							
Kanechlor 500		 							

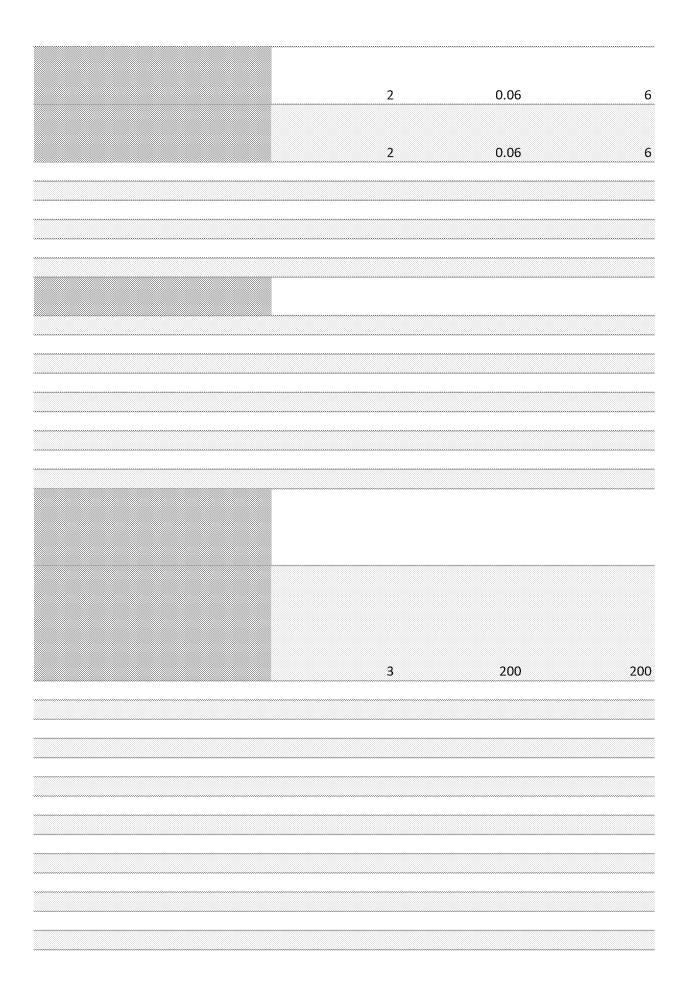
Mouse	Oral-diet
Mouse	Oral-diet
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
CHECK	CHECK
Rat	Oral-diet

Mouse	Oral-diet
Mouse	Oral-diet
Rat	Oral-diet

Primary	90
Primary	90
Primary	90
Primary	
Primary	
Primary	50







6 N/A		N/A
0.6	6	
		N/A
		IN/A
N/A	200	

	5±5 g male; assume 90 d that dietary doses of 1, 10, and 100 ppm were equivalent to 0.06, 0.6, and 6 mg/kg-d	
	5 ± 5 g male; assume 90 d that dietary doses of 1, 10, and 100 ppm were equivalent to 0.06, 0.6, and 6 mg/kg-d	
	ice were dosed with 200 ppm for 60 days; dosing began immediately upon pairing. There wa ${ m e}$ of all litters produced in this time period (Table 1).	s no
the decrease in p	ice were dosed with 200 ppm for 60 days; dosing began immediately upon pairing. LOAEL ba airs having at least one litter or two litters and decreased total litters in 60 days. Starting age nales at sexual maturity"; assume 50 d.	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	
the decrease in p	airs having at least one litter or two litters and decreased total litters in 60 days. Starting age	

	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
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	22	0.9	0.094	0.154	10	21
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	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22 18	0.9	0.094	0.154	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18 18 22	0.9 0.9 0.9	0.229 0.229 0.094	0.264 0.264 0.154	6 6 10	21 21 21
	18 18 22 22	0.9 0.9 0.9 0.9	0.229 0.229 0.094 0.094	0.264 0.264 0.154 0.154	6 10 10	21 21 21 21
	18 18 22 22 22	0.9 0.9 0.9 0.9 0.9	0.229 0.229 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154	6 10 10	21 21 21 21 21
	18 18 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9	0.229 0.229 0.094 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154 0.154	6 10 10 10	21 21 21 21 21 21
	18 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.229 0.094 0.094 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10	21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10	21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10	21 21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10 10	21 21 21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10 10 10	21 21 21 21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10 10 10	21 21 21 21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10 10 10 10 10	21 21 21 21 21 21 21 21 21 21 21 21
	18 22 22 22 22 22 22 22 22 22 22 22	0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	0.229 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094 0.094	0.264 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154 0.154	6 10 10 10 10 10 10 10 10	21 21 21

Adequate	Good	Adequate
Adequate	Good	Adequate

Yagi and Itokawa	1980	2177746
Narbonne	1979	2178150
Narbonne	1979	2178150
Müller et al.	1978	2178597
Müller et al.	1978	2178597
lshikawa et al.	1978	2178872
Ishikawa et al.	1978	2178872
Ishikawa et al.	1978	2178872
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Schmoldt et al.	1977	2179041
Sanders and Kirkpatrick	1977	2179086
Sanders and Kirkpatrick	1977	2179086
Sanders and Kirkpatrick	1977	2179086
Sanders and Kirkpatrick	1977	2179086
•		
Sanders et al.	1977	2179130

liver and serum levels of cholesteroltriglyceride, nonesterified fatty acid, phospholipid, total liver lipidsliver weight
microsomal protein contentliver weight
microsomal protein contentliver weight
ovulation
levels of luteinizing hormone, follicle-stimulating hormone, and estrogen
ovulation
levels of luteinizing hormone, follicle-stimulating hormone, and estrogen
microsomal protein contentliver weight, liver to body weight ratioplasma levels of SGOT, SGTP, bilirubin
microsomal protein contentliver weight, liver to body weight ratioplasma levels of SGOT, SGTP, bilirubin
microsomal protein contentliver weight, liver to body weight ratioplasma levels of SGOT, SGTP, bilirubin
brain weight
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
total cholesterolmicrosomal protein, cytochrome P450 and b5 content, NADPH-cyt. c reductase, p-nitroanisole-demethyla
% of females exhibiting an estrual smear
ovarian and uterine weights
liver microsomal enzyme activityliver weight
liver microsomal enzyme activityliver weight
preputial gland, seminal vesicle and left testis weight

Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Ovulation	Reproductive

Sex hormone levels, female	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary

Estrous/menstrual cycle characteristics	Reproductive	
Reproductive organ size/weight, female	Reproductive	
Liver Enzyme Induction	Hepatobiliary	
Liver Weight/Hepatomegaly	Hepatobiliary	
Reproductive organ size/weight, male	Reproductive	

Kanechlor 500		 	 	 	 	 		
Phenochlor DP6								
Phenochlor DP6	 	 	 	 	 	 		
Cl. 1 400								
Clophen A30	 	 	 	 	 	 		
Clophen A30								
Aroclor 1254	 	 	 	 	 *********	 		
Aroclor 1254	 	 	 *************	 	 	 	***************************************	
Aroclor 1254	 	 	 *****		 ******	 		
Clophen A30	 	 	 	 	 	 		
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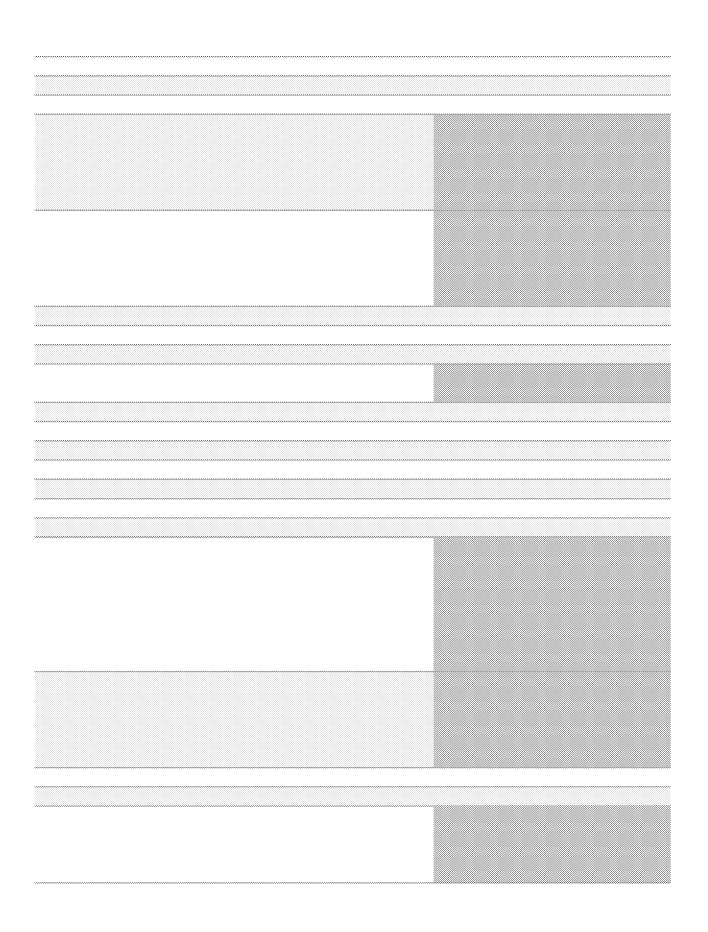
Aroclor 1254

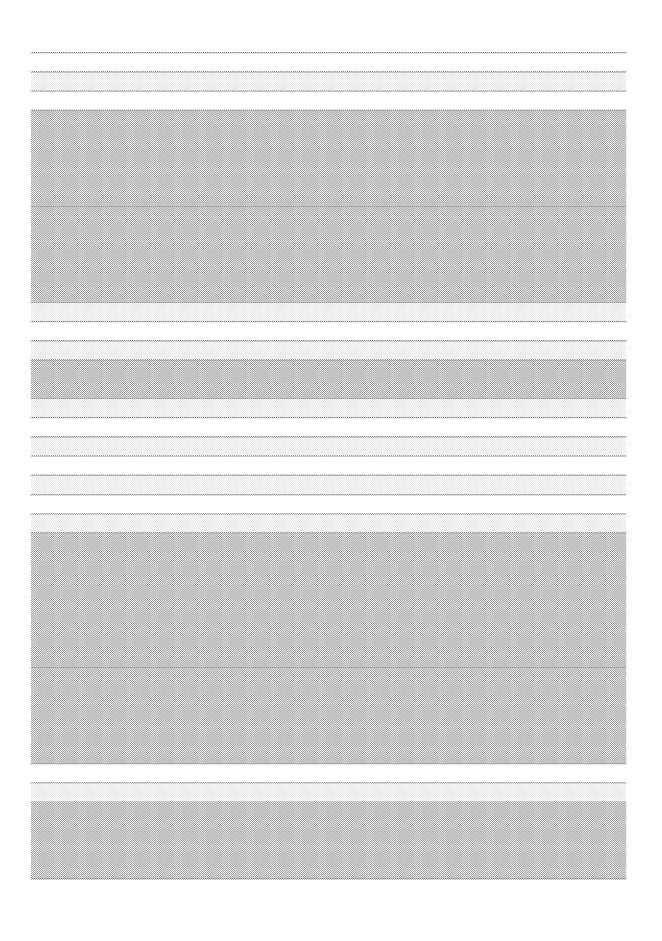
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
CHECK	CHECK

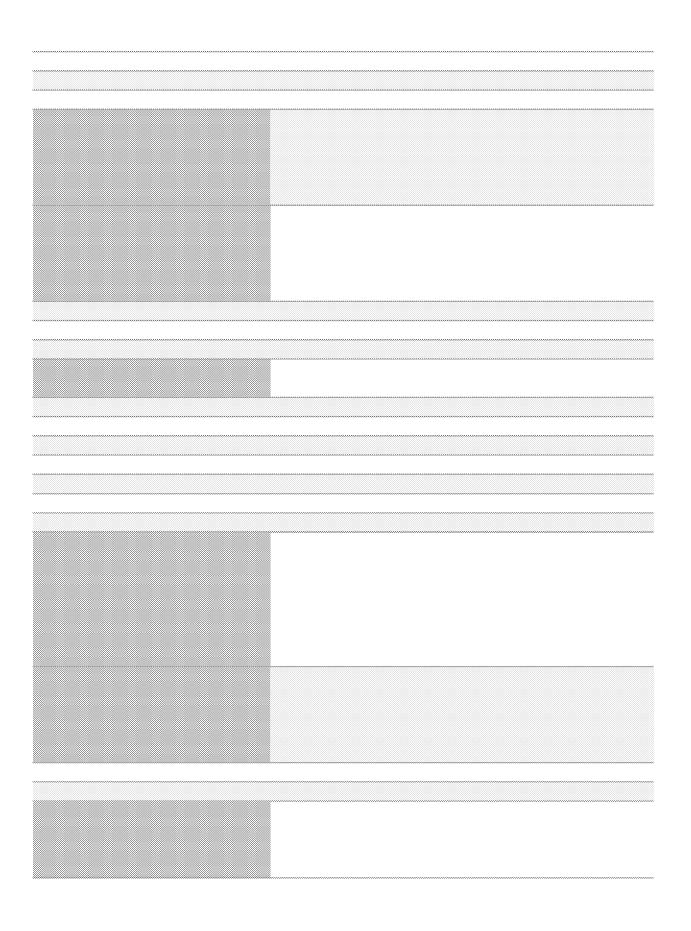
CHECK	CHECK	
Rat	Injection-ip	
Rat	Injection-ip	
Rat	Injection-ip	
Rat	Oral-diet	

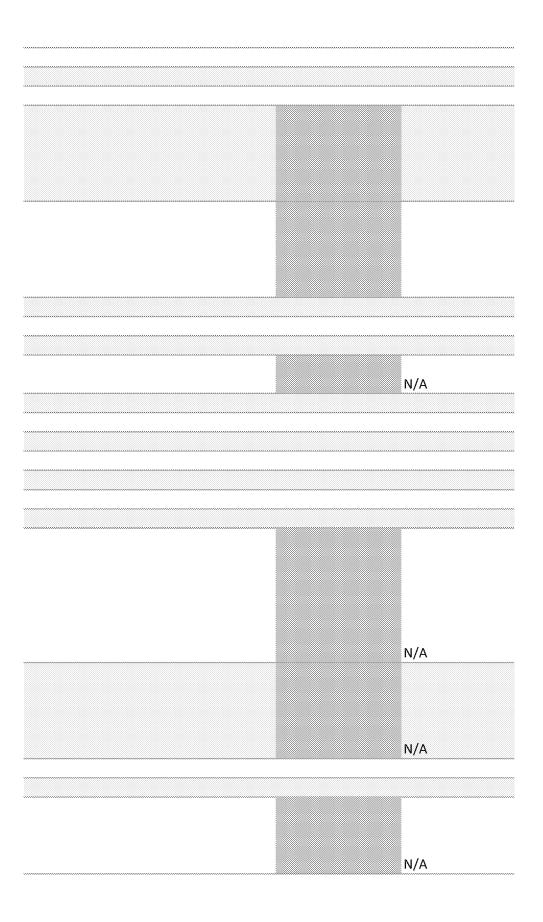
Mouse	Oral-diet
Mouse	Oral-diet
 Mouse	Oral-diet
 Mouse	Oral-diet

Primary			
Primary			
Primary			
Primary			







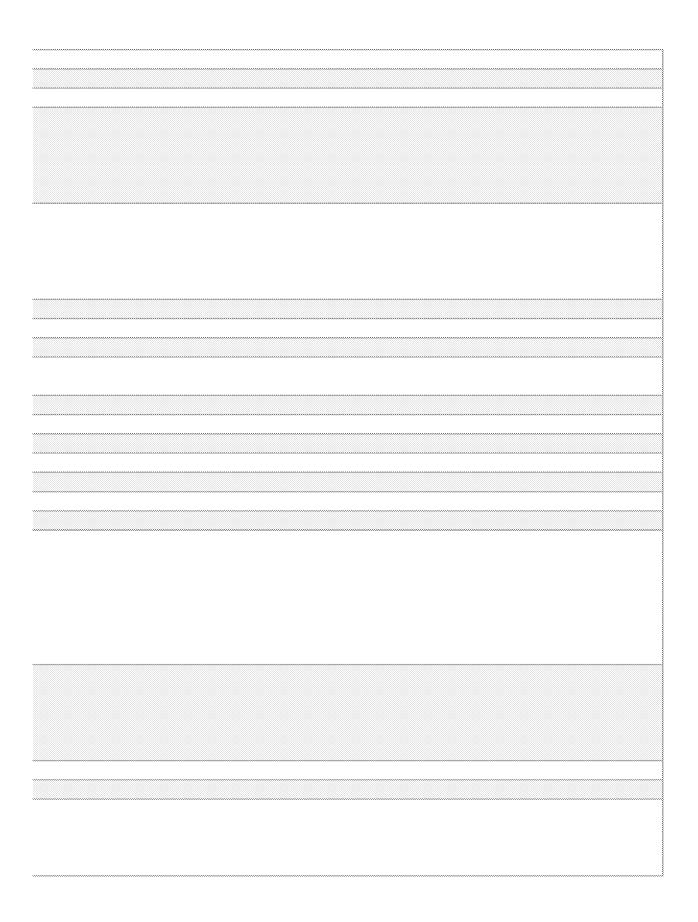


Adult male rats exposed for 12 wk; age NR (180 g). No changes in brain weight were observed (Table 1).
Adult female mice (between ages 100-180 days) were fed 0, 25, or 100 ppm (ad libitum) or 0, 36, or 143 ppm (70% ad
libitum) for 3 weeks. Authors report PCB intake in mg/kg-day based on food consumption (Table 1). Vaginal smears
evaluated during the last 6 days of the exposure. There was no significant effect of PCB treatment on estrual smears
(Table 4).
A L I C L O O C 400 / LIII V A O C 440 / 700/ LIII V A A L A A D C C C C C C C C C C C C C C C C C
Adult female mice fed 0, 25, or 100 ppm (ad libitum) or 0, 36, or 143 ppm (70% ad libitum). Authors report PCB intake
in mg/kg-day based on food consumption (Table 1). There was no significant effect of PCB treatment on ovarian and
uterine weights (Table 2).
Adult male mice (115-130 days old) were dosed with 0, 50, or 200 ppm (ad libitum) or 0, 100, or 400 ppm (50% ad
libitum) for 15 days. Reproductive organ weights were not affected by PCB treatment (Table 3).

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
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CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
***************************************	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.0	0.220	0.264	6	21
***************************************		0.9	0.229	U.264	Ö	21



Sanders et al.	1977	2179130
Sanders et al.	1977	2179130
Sanders et al.	1977	2179130
Oda et al.	1994	2179169
Oda et al.	1994	2179169
Oda et al.	1994	2179169
Yagi et al.	1976	2179349
Yagi et al.	1976	2179349
Yagi et al.	1976	2179349
Kasza et al.	1976	2179492
Kasza et al.	1976	2179492
Kasza et al.	1976	2179492
Kasza et al.	1976	2179492
Braunberg et al.	1976	2179493
Braunberg et al.	1976	2179493
Braunberg et al.	1976	2179493
Bastomsky and Murthy	1976	2179560
Dastonisky and Martiny	13,0	2175500
Dastomsky and Warting	13,0	2173300
Dastomsky and Warthy	23,0	2173300
Allen et al.	1976	2179602
Allen et al.	1976	2179602
Allen et al.	1976	2179602
Allen et al.	1976 1976	2179602 2179602
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Allen et al.	1976 1976 1976 1976	2179602 2179602 2179602 2179602 2179602
Allen et al. Allen et al.	1976 1976 1976 1976 1976 1976	2179602 2179602 2179602 2179602 2179602 2179602
Allen et al.	1976 1976 1976 1976	2179602 2179602 2179602 2179602 2179602

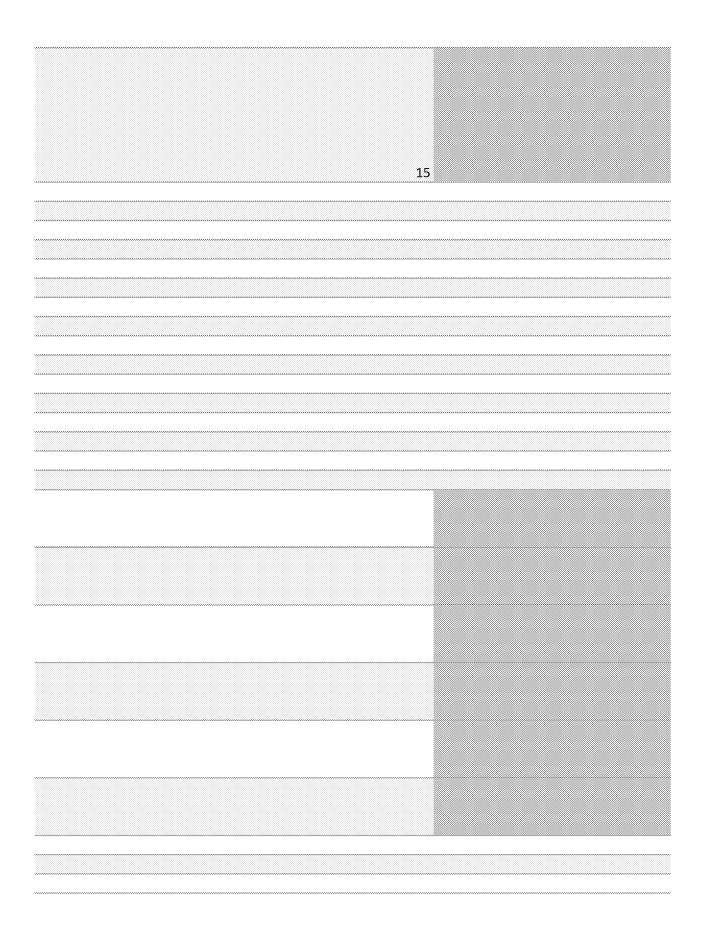
sperm number per mg testis							
liver microsomal enzyme activityliver weig	ht						
liver microsomal enzyme activityliver weig	ht						
hepatic lipidshepatic weight							
hepatic lipidshepatic weight							
hepatic lipidshepatic weight							
prominent dark brown pigmentationliver w	veightliver l	evels of soc	dium, magne	esium, pota	ssium, and	calcium	
prominent dark brown pigmentationliver w	veightliver l	evels of soc	dium, magne	esium, pota	ssium, and	calcium	
prominent dark brown pigmentationliver w	eightliver l	evels of soc	dium, magne	esium, pota	ssium, and	calcium	
coarse intracytoplasmic vacuolation, hyper	trophic, pro	oliferation o	f smooth-su	rfaced end	oplasmic re	ticulumaco	cumulation
coarse intracytoplasmic vacuolation, hyper	************	*************	************	***********	************	************	************
coarse intracytoplasmic vacuolation, hyper							
coarse intracytoplasmic vacuolation, hyper							
liver histology (proliferation of smooth end							
liver histology (proliferation of smooth end				************		**********	
liver histology (proliferation of smooth end	onlasmic re			************		nathology	was report
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liver histology (proliferation of smooth end liver weight	oplasmic re			************		pathology	was report
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liver weight brain weight	oplasmic re			************		pathology	was report
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brain weight brain weight brain weight brain weight testes weight testes weight	S			************		pathology	was report
brain weight brain weight brain weight testes weight testes weight testes weight cholesterolliver histopathologyliver weight	S S			************		pathology	was report

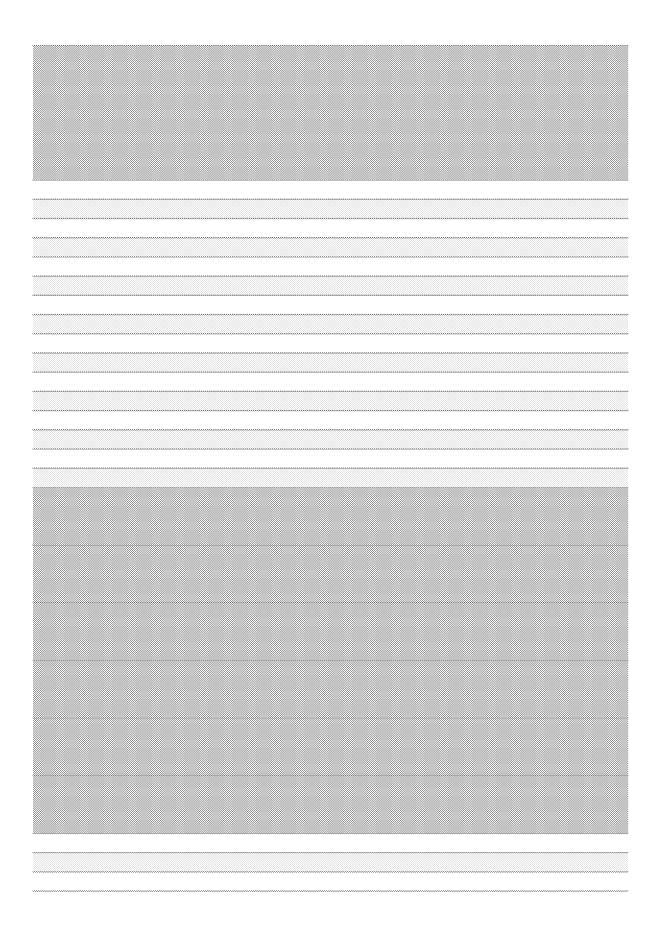
Sperm/semen parameters	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological	Nervous System
Reproductive organ size/weight, male	Reproductive
•	·
Reproductive organ size/weight, male	Reproductive
, , , , , , , , , , , , , , , , , , , ,	
Reproductive organ size/weight, male	Reproductive
Cholesterol	Hepatobiliary
Liver Histopathology	
	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary Hepatobiliary

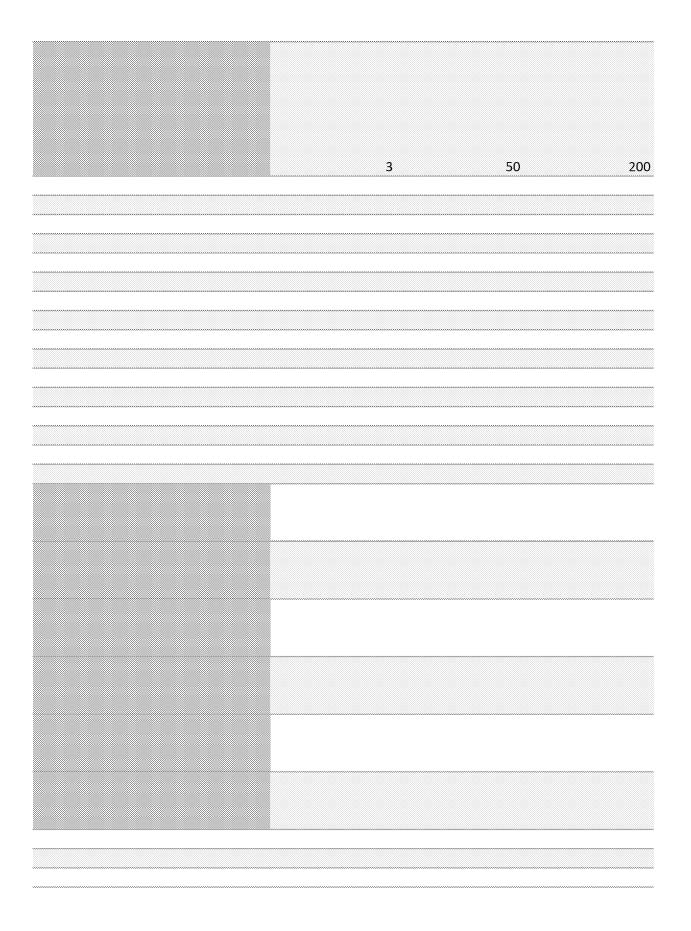
Aroclor 1254 Aroclor 1262 Aroclor 1242	
Aroclor 1254	
711 OCIO1 12-72	
Aroclor 1242	
Alddol 1234	
Aroclor 1254	
Aroclor 1254 Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Kanechlor 500	
Kanechlor 500	
Kanechlor 500	
Aroclor 1248	
Aroclor 1248	
Aroclor 1248	
Aroclor 1254 Aroclor 1254	
Aroclor 1254	

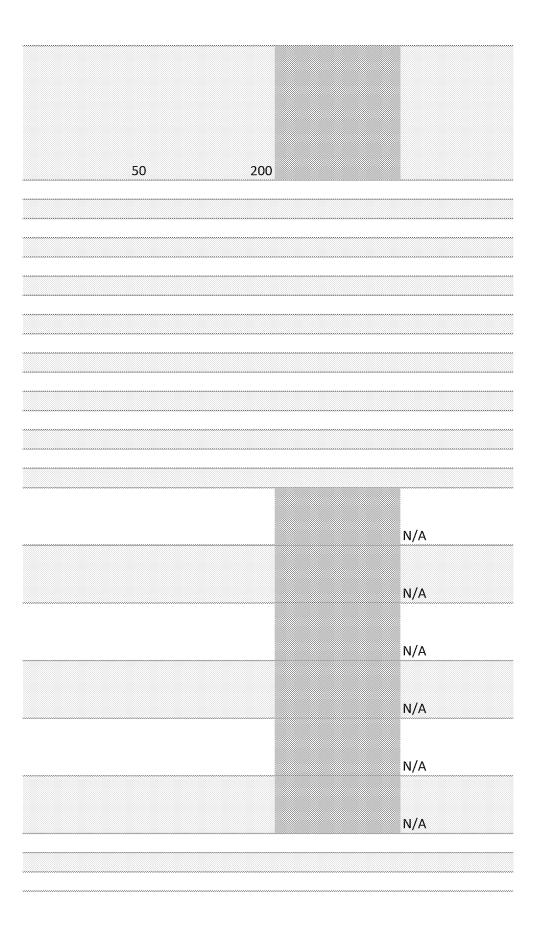
Mouse	Oral-diet
 Mouse	Oral-diet
 Mouse	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Rat	Dermal
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Nac	oral dice
Rat	Oral-diet
, and a second s	ora det
_	
Rat	Oral-diet
	2.0
Rat	Oral-diet
Rat	Oral-diet
₽ ₂ +	Oral-diet
 Rat Rat	Oral-diet

Primary			122.5
Primary Primary			
Primary			
Primary			
Primary Primary			



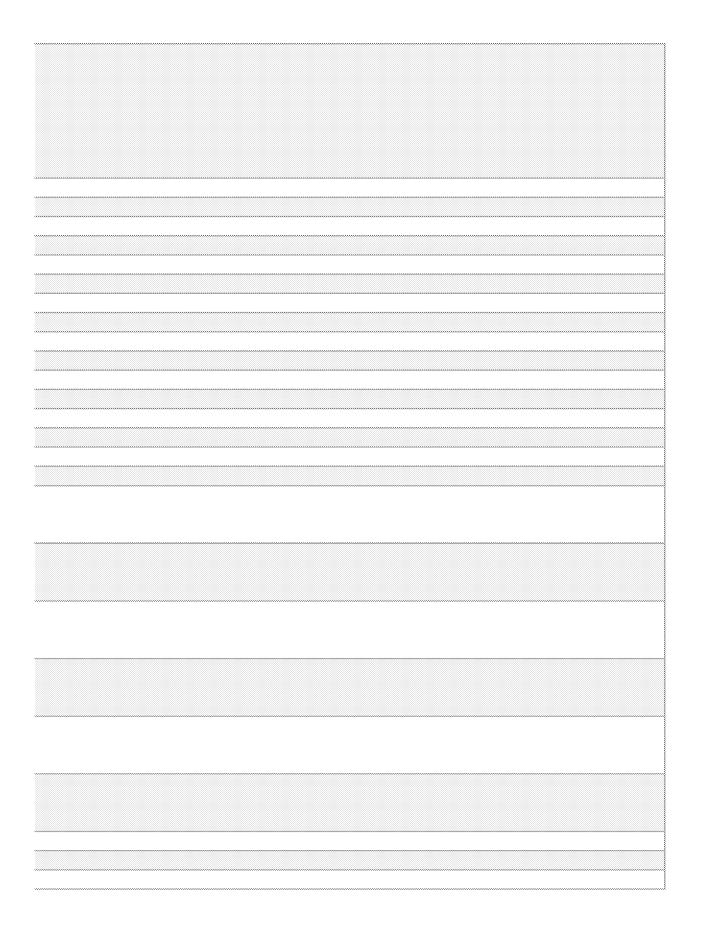






Adult male mice (115-130 days old) were dosed with 0, 50, or 200 pp libitum) for 15 days. LOAEL based on decreased sperm/testis (Table 4 report the dose at which significance was observed; however, it appo	4). They say there was a significant effect but don'
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. brain) weight.	Text states that there were no effects on organ
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. brain) weight.	Text states that there were no effects on organ
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. brain) weight.	Text states that there were no effects on organ
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. testes) weight.	Text states that there were no effects on organ
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. testes) weight.	Text states that there were no effects on organ
Adult male rats were dosed with 100 ppm in diet for up to 52 weeks. testes) weight.	Text states that there were no effects on organ

4.0					
 18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.454	40	24
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.454	10	24
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	24
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	31
 22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	21
 22	0.9	0.094	0.154	10	21
วา	0.0	0.004	0.154	10	0.4
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



	4070	
Orberg and Kihlström	1973	2179659
Orberg and Kihlström	1973	2179659
Goldstein et al.	1975	2179842
Goldstein et al.	1975	2179842
Goldstein et al.	1975	2179842
Iverson et al.	1975	2179920
Iverson et al.	1975	2179920
Iverson et al.	1975	2179920
Bickers et al.	1975	2179927
Bickers et al.	1975	2179927
Sanders and Kirkpatrick	1975	2180027
Sanders and Kirkpatrick	1975	2180027
Sanders and Kirkpatrick	1975 1975	2180027
Sanders and Kirkpatrick		2180027
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Itokawa et al.	1975	2180042
Hansell and Ecobichon	1974	2180274

number of estrous cycles during the 62 day monitoring period # of corpora lutea number of estrous cycles during the 62 day monitoring period # of corpora lutea liver enzymes, hepatic cytochrome P-450s, hepatic microsomal protein, delta amino levulenic acidliver weightliver porph liver enzymes, hepatic cytochrome P-450s, hepatic microsomal protein, delta amino levulenic acidliver weightliver porph liver enzymes, hepatic cytochrome P-450s, hepatic microsomal protein, delta amino levulenic acidliver weightliver porph liver aniline hydroxylase, aminopyrene demethylase, cytochrome P450relative liver weightliver porphyrins liver aniline hydroxylase, aminopyrene demethylase, cytochrome P450relative liver weightliver porphyrins liver aniline hydroxylase, aminopyrene demethylase, cytochrome P450relative liver weightliver porphyrins enzyme activity (aryl hydrocarbon hydroxylase, ethylmorphine N-demethylase, benzo(a)pyrene hydroxylase, cytochrome enzyme activity (aryl hydrocarbon hydroxylase, ethylmorphine N-demethylase, benzo(a)pyrene hydroxylase, cytochrome seminal vesicle weight, testis weights sperm per mg testis and total sperm per testis liver enzyme inductionliver weight liver enzyme inductionliver weight brain weight and histopathology testis histopathology relative testis weight testis histopathology relative testis weight cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod

cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod cholesterolliver aniline hydroxylaseliver histopathology, liver morphologyliver lipidsliver weight, liver weight ratio to bod liver cell morphology, changes in hepatic smooth endoplasmic reticulumlipid droplets and microbodiesabsolute liver weight

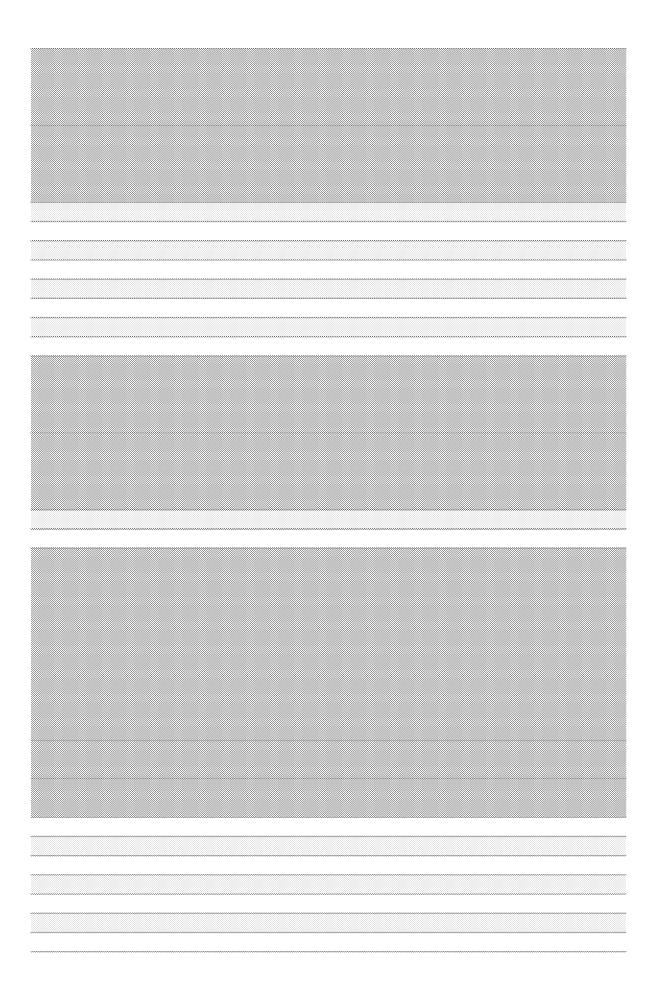
Estrous/menstrual cycle characteristics	Reproductive
Ovulation	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ size/weight, male	Reproductive
Sperm/semen parameters Liver Enzyme Induction	Reproductive Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Brain-histological, structural, morphological	Nervous System
Drain macological, acraetaral, morphological	ivervous system
Reproductive organ histopathology, male	Reproductive
Reproductive organ size/weight, male	Reproductive
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
perum piomarkers of Liver Health & Function	
Liver Histopathology	Hepatobiliary

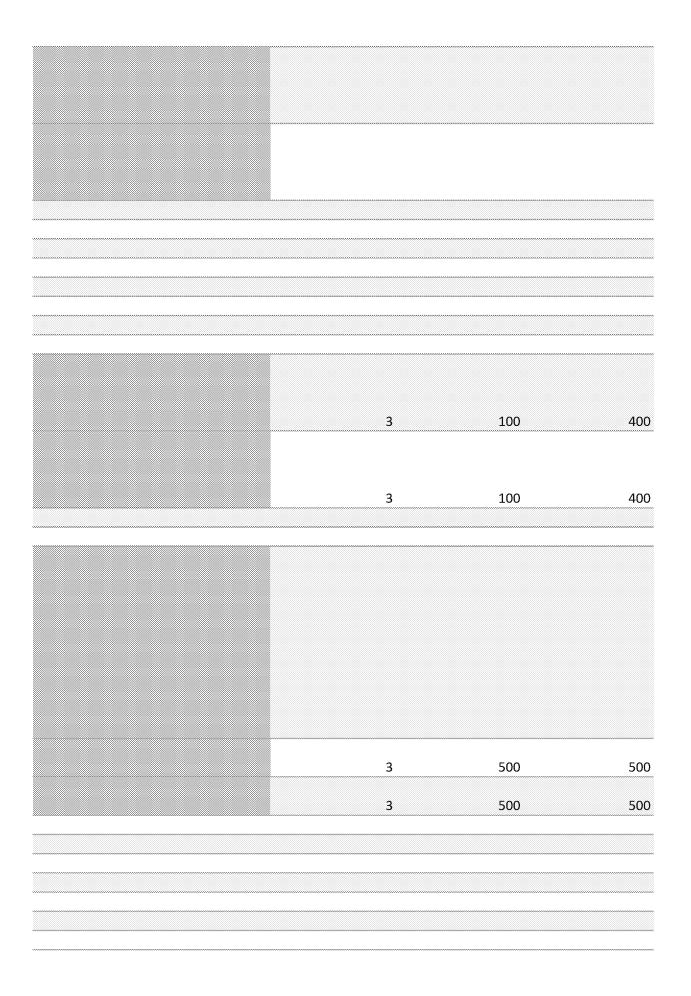
Clophen A60	
Clophen A60	
Aroclor 1016Aroclor 1242	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
AIOCIOI 1254	
Aroclor 1254	
Aroclor 1254	
Aroclor 1254	
Kanechlor 500	
variedinor 300	
Kanechlor 500	
Kanechlor 500	
Aroclor 1254Aroclor 1260	

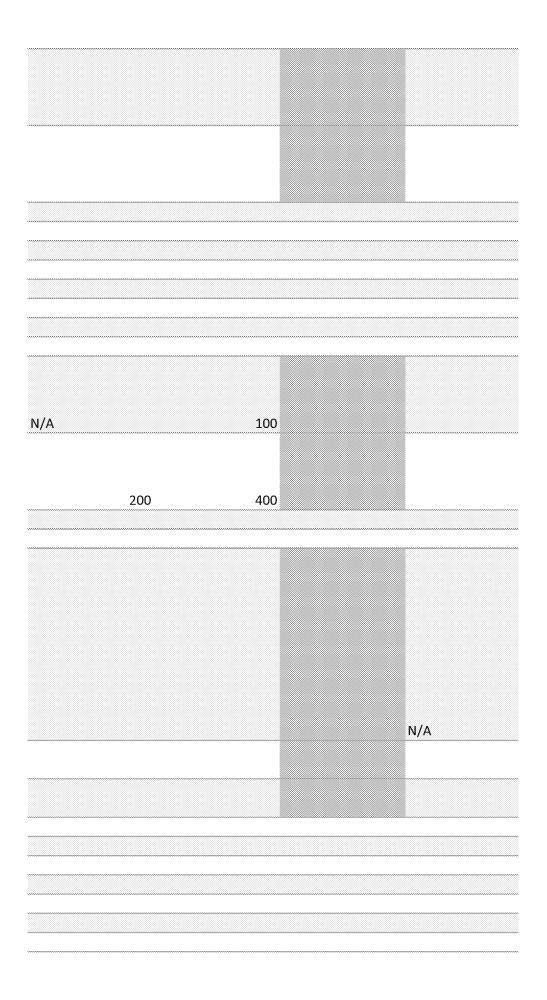
 Mouse	Oral-CHECK
Mayor	Oral-CHECK
 Mouse Rat	Oral-CHECK Oral-diet
 Rat	Oral-diet Oral-diet
 Rat	Oral-diet Oral-diet
 Rat	Oral-gavage
 Rat	Oral-gavage Oral-gavage
 Rat	Oral-gavage Oral-gavage
 Rat	Dermal
 Rat	Dermal
 Trace	Definal
Mouse	Oral-diet
Mouse	Oral-diet
Modae	Orar-diet
Mouse	Oral-diet
Mouse	Oral-diet
Mouse	Oral-diet Oral-diet
Mouse	Oral-diet
Mouse Mouse Rat	Oral-diet Oral-diet
Mouse	Oral-diet Oral-diet
Mouse Mouse Rat	Oral-diet Oral-diet Oral-diet
Mouse Mouse Rat Rat	Oral-diet Oral-diet Oral-diet Oral-diet
Mouse Mouse Rat Rat Rat Rat	Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet
Mouse Mouse Rat Rat Rat Rat Rat Rat Rat	Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet Oral-diet
Mouse Mouse Rat Rat Rat Rat Rat Rat Rat Ra	Oral-diet
Mouse Mouse Rat Rat Rat Rat Rat Rat Rat Ra	Oral-diet
Mouse Mouse Rat Rat Rat Rat Rat Rat Rat Ra	Oral-diet Oral-diet
Mouse Mouse Rat Rat Rat Rat Rat Rat Rat Ra	Oral-diet

Primary		
Timary		
D :		
Primary		
Primary		165
Primary		165
Dulman		
Primary		
Primary		
Primary		
Primary		

70-72	
70-72	
14	
14	
3091213	
3091213	







0, 0.025 mg									
0, 0.025 mg									
	e (age 145 - 185 da reased paired ser				m in die	t for 2 w	eeks. LOAI	EL based on	
	e (age 145 - 185 da reased sperm/mք			-		t for 2 w	eeks. LOAE	L based on	
was also conduc provided but is i	exposed for up to ted in male rats (inferred to be 1 m vere NR. For exp 1 page 121)	150g) with dose o from the tab	es ranging f les. It is not	rom 10-500 clear if bra) ppm. T in weigh	he durat it and hi	ion of the stology we	2nd experin re evaluate	nent is not d in exp 2,
was also conduc provided but is i but the results v	cted in male rats (inferred to be 1 m vere NR. For exp :	150g) with dose o from the tab	es ranging f les. It is not	rom 10-500 clear if bra) ppm. T in weigh	he durat it and hi	ion of the stology we	2nd experin re evaluate	nent is not d in exp 2,
was also conduc provided but is i but the results v	cted in male rats (inferred to be 1 m vere NR. For exp :	150g) with dose o from the tab	es ranging f les. It is not	rom 10-500 clear if bra) ppm. T in weigh	he durat it and hi	ion of the stology we	2nd experin re evaluate	nent is not d in exp 2,
was also conduc provided but is i but the results v	cted in male rats (inferred to be 1 m vere NR. For exp :	150g) with dose o from the tab	es ranging f les. It is not	rom 10-500 clear if bra) ppm. T in weigh	he durat it and hi	ion of the stology we	2nd experin re evaluate	nent is not d in exp 2,

18	0.9	0.229	0.264	6	21
10	0.9	0.229	0.204	0	Z1
4.0					
 18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21
 22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
			g :=:		
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



Hansell and Ecobichon	1974	2180274
Hansell and Ecobichon	************	
nansen and Ecopicnon	1974	2180274
Orberg and Lundberg	1974	2180432
Orberg and Lundberg	1974	2180432
Orberg and Lundberg	1974	2180432
Kimbrough	1973	2180556
Kato et al.	1972	2181050
Kato et al.	1972	2181050
Kato et al.	1972	2181050
Kato et al.	1972	2181050
······································		
Inao	1970	2181226
Inao	1970	2181226
Quazi	1985	2181705
Quazi	1985	2181705
Quazi	1985	2181705
Suzuki	1980	2185504
Suzuki	1980	2185504
	4070	0400574
National Cancer Institute	1978	2192571
National Cancer Institute	1978	2192571
National Cancer Institute	1978	2192571
National Cancer Institute	1978	2192571
National Cancer Institute National Cancer Institute	1978 1978	2192571 2192571
National Cancer Institute	1978	2192571
National Cancer Institute National Cancer Institute Severino et al.	1978 1978 1994	2192571 2192571 2192718
National Cancer Institute National Cancer Institute	1978 1978 1994	2192571 2192571 2192718 2192718
National Cancer Institute National Cancer Institute Severino et al.	1978 1978 1994	2192571 2192571 2192718
National Cancer Institute National Cancer Institute Severino et al.	1978 1978 1994	2192571 2192571 2192718 2192718

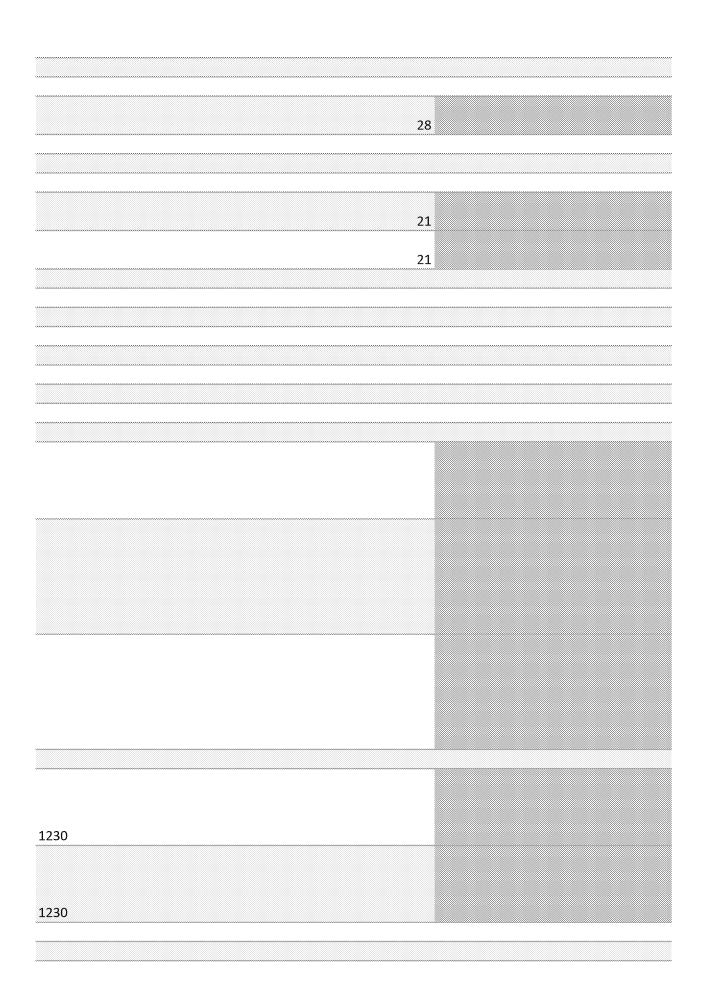
liver cell morphology, changes in hepatic smooth endoplasmic reticulumlipid droplets and microbodiesabsolute liver wei
liver cell morphology, changes in hepatic smooth endoplasmic reticulumlipid droplets and microbodiesabsolute liver wei
seminal vesicle weight, testis weight liver enzyme inductionliver weight
liver enzyme inductionliver weight
adenofibrosis, liver enlargement, fatty metamorphosis, accumulation of brown pigment in hepatic macrophages, present
number of newborn
uterine histopathology
number of newborn
uterine histopathology
increased smooth endoplasmic reticulum and inhibition of mitochondria, and some degenerationliver-body weight ratios
increased smooth endoplasmic reticulum and inhibition of mitochondria, and some degenerationliver-body weight ratios
corticosterone-inactivating liver functionliver weight
corticosterone-inactivating liver functionliver weight
cholesteroltotal lipids, phospholipid, triglycerideliver weight
cholesteroltotal lipids, phospholipid, triglycerideliver weight
cholesteroltotal lipids, phospholipid, triglycerideliver weight
serum cholesterolliver enzyme induction
serum cholesterolliver enzyme induction
uterine and ovarian histopathology
testes histopathology liver histopathology
frequency of estrous during the 12 days pre-mating treatment period litter size
frequency of estrous during the 12 days pre-mating treatment period litter size
liver histopathology
cholesterollipidsliver weight
1

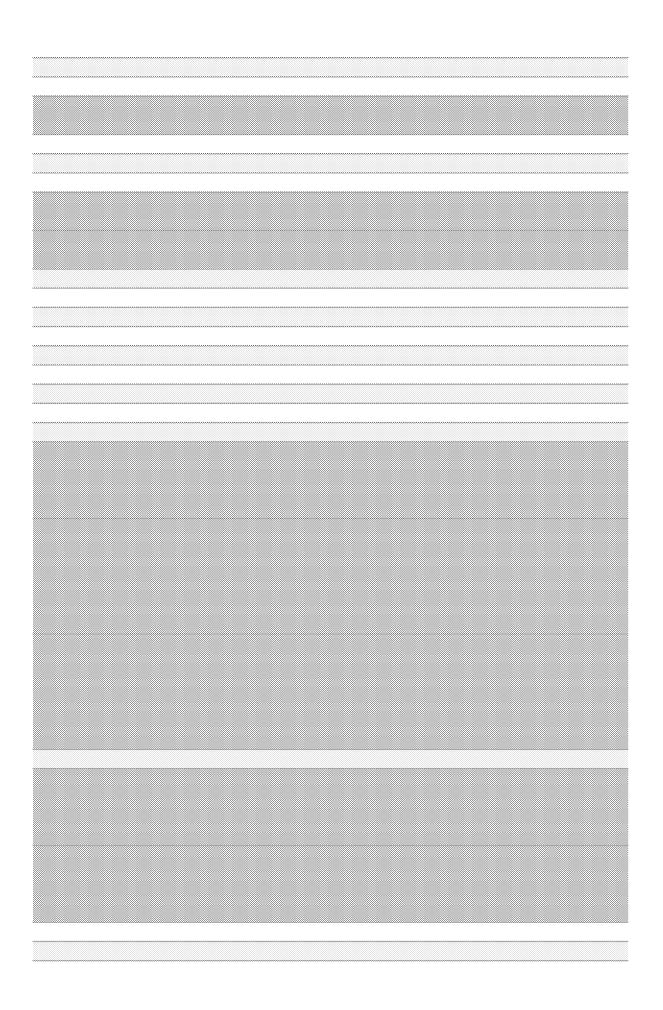
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Reproductive organ size/weight, male	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Histopathology	Hepatobiliary
Pregnancy/conception rate	Reproductive
Reproductive organ histopathology, female	Reproductive
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
	11
Liver Enzyme Induction Brain-histological, structural, morphological	Hepatobiliary Nervous System
Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological Reproductive organ histopathology, female	Nervous System Reproductive
Brain-histological, structural, morphological Reproductive organ histopathology, female Reproductive organ histopathology, male	Nervous System Reproductive
Brain-histological, structural, morphological Reproductive organ histopathology, female Reproductive organ histopathology, male Liver Histopathology Estrous/menstrual cycle characteristics	Reproductive Reproductive Hepatobiliary Reproductive
Brain-histological, structural, morphological Reproductive organ histopathology, female Reproductive organ histopathology, male Liver Histopathology Estrous/menstrual cycle characteristics Pregnancy/conception rate	Reproductive Reproductive Hepatobiliary Reproductive
Brain-histological, structural, morphological Reproductive organ histopathology, female Reproductive organ histopathology, male Liver Histopathology Estrous/menstrual cycle characteristics	Reproductive Reproductive Hepatobiliary Reproductive

Aroclor 1254Arocloi	1200					
Aroclor 1254Aroclo	r 1260	 	 	 	 	
Clophen A60						
Clophen A60		 	 	 	 	
Clophen A60		 	 	 	 	
Aroclor 1254		 	 	 	 	
Arocior 1254		 	 	 	 	
Kanechlor 400		 	 	 	 	
Kanechlor 400						
Kanechlor 400		 	 	 	 	
Kanechlor 400		 	 	 	 	
Kanechlor 400		 	 	 	 	
Kanechlor 400		 	 	 	 	
Aroclor 1248		 	 	 	 	
Aroclor 1248		 	 	 	 	
Aroclor 1248		 	 	 	 	
Aroclor 1248		 	 	 	 	
Aroclor 1248 Aroclor 1248		 	 	 	 	
ATUCIUI 1246		 	 	 	 	
Aroclor 1254						
Aroclor 1254						
Aroclor 1254						
Aroclor 1254						
Aroclor 1254						
Aroclor 1254 Aroclor 1254						
Aroclor 1254 Aroclor 1254						
Aroclor 1254 Aroclor 1254 Aroclor 1254 Fenclor 64						
Aroclor 1254 Aroclor 1254 Fenclor 64						
Aroclor 1254 Aroclor 1254 Fenclor 64 Fenclor 64						
Aroclor 1254 Aroclor 1254 Fenclor 64						

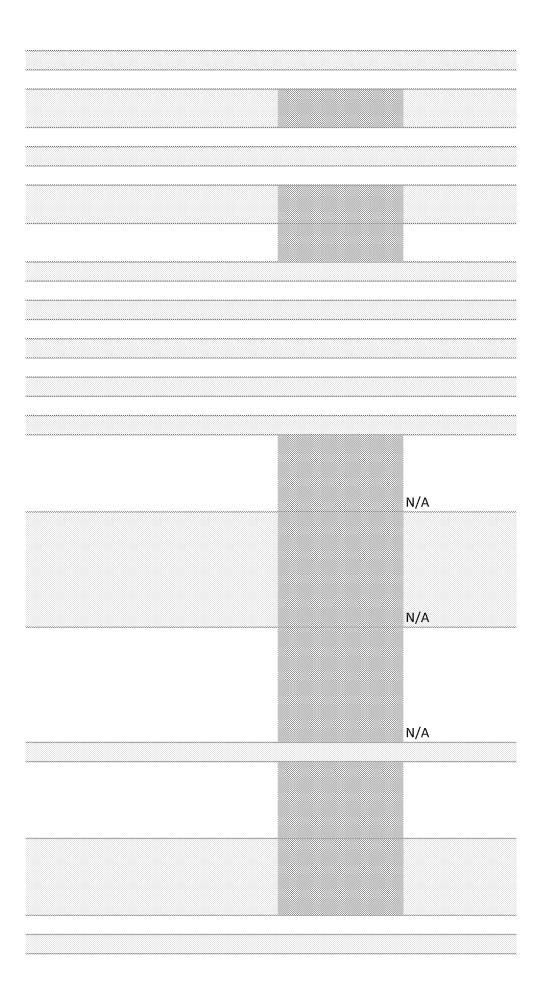
Rat	Injection-ip
Rat	Injection-ip
Mouse	Oral-gavage
Mouse	Oral-gavage
 Mouse	Oral-gavage
Rat	Oral-diet
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-diet
nat	Oranict
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet Oral-diet
Rat Rat	Oral-diet
Rat Rat	Oral-diet Oral-diet
Rat Rat	Oral-diet Oral-diet
Rat Rat Rat	Oral-diet Oral-diet Oral-gavage
Rat Rat	Oral-diet Oral-diet

Primary			
Primary	 		
Primary			
Primary			
Primary			
Primary			
Primary			
Primary			



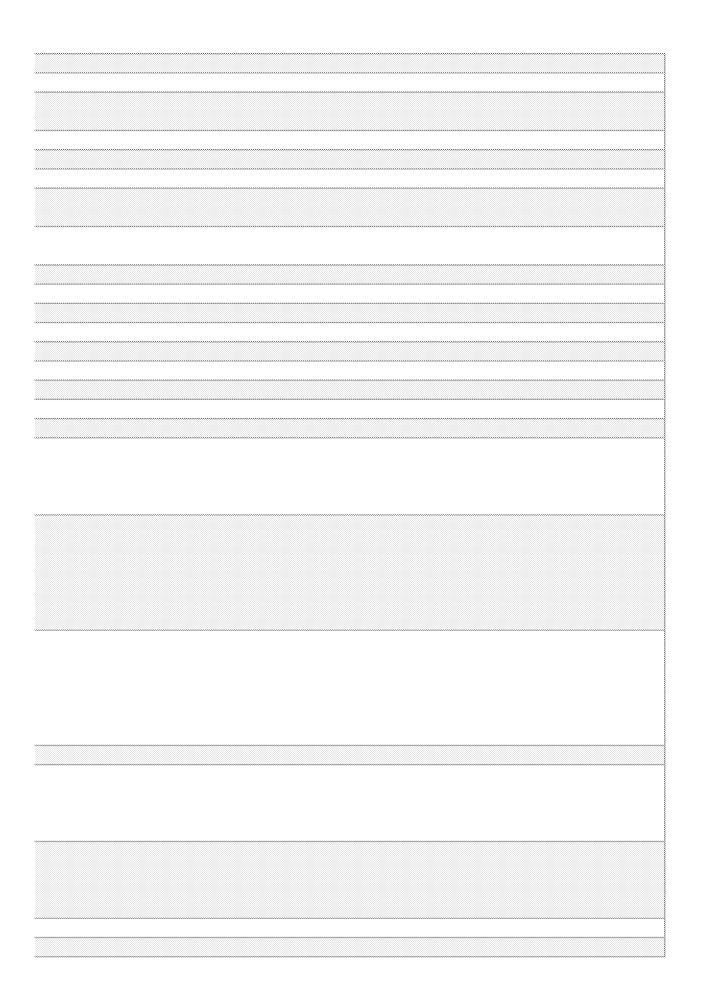


	2		
	2	25 25	675 675
		100	100
		100	100



0, 7mg/animal-day													
Male and female rats							or 104-	105 w	k. No e	videnc	e of tre	eatmer	nt-
		CHAIN CADI	cs and	COULT	came	oncj.							
Male and female rats	s (53 days old, s	see p. 24 o											
Male and female rats necropsied at the end female reproductive	s (53 days old, s d of study for h tissues (Appen	see p. 24 o istopathol dix tables	ogical (and de	evaluat scribed	on. Th in text	ere wa).	as no ev	videnc	e of tre	atmen	t-relat	ed effe	cts on
Male and female rats	s (53 days old, s d of study for h tissues (Appen s (53 days old, s d of study for h	see p. 24 o istopathol dix tables see p. 24 o istopathol	ogical ogical of PDF)	evaluat scribed were do evaluat	on. The in text osed wi	ere wa). th 0, 2	s no ev	videnco	e of tre	atmen r 104-1	t-relat 05 we	ed effe	cts on
Male and female rats necropsied at the end female reproductive Male and female rats necropsied at the end	s (53 days old, s d of study for h tissues (Appen s (53 days old, s d of study for h	see p. 24 o istopathol dix tables see p. 24 o istopathol	ogical ogical of PDF)	evaluat scribed were do evaluat	on. The in text osed wi	ere wa). th 0, 2	s no ev	videnco	e of tre	atmen r 104-1	t-relat 05 we	ed effe	cts on

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
***************************************	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22					
		0.9	0.094	0.154	10	21
	22 22	0.9 0.9 0.9	0.094 0.094 0.094	0.154 0.154 0.154	10 10 10	21 21 21
		0.9	0.094	0.154	10	21
	22	0.9 0.9 0.9	0.094 0.094 0.094	0.154 0.154 0.154	10 10	21 21 21
	22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21



Kato	1981	2197761
Kato	1981	2197761
Horio et al.	1981	2197814
Horio et al.	1981	2197814
Horio et al.	1981	2197814
Horio et al.	1981	2197814
Quazi et al.	1983	2198120
Quazi et al.	1983	2198120
Quazi et al.	1983	2198120
Quazi et al.	1984	2198216
Quazi et al.	1984	2198216
Quazi et al.	1984	2198216
Quazi et al.	1984	2198216
Jensen et al.	1977	2198965
Jensen et al.	1977	2198965
Jensen et al.	1977	2198965
Kiriyama et al.	1974	2199240
Kiriyama et al.	1974	2199240
Fujiwara	1977	2199440
Orberg et al.	1972	2199587
Hori et al.	1986	2199616
Hori et al.	1986	2199616
Hori et al.	1986	2199616
Hori et al.	1986	2199616
Kakela et al.	1999	2200060
Katayama et al.	1991	2200724
Katayama et al.	1991	2200724
Carter and Mercer	1983	2201028
Carter and Mercer	1983	2201028
Calandra	1976	2201050

cholesterollipidsliver weight
cholesterollipidsliver weight
cholesterolaminopyrine N-demethylase activity, cytochrome P450 contentliver weightascorbic acid in urine and liver
cholesterolaminopyrine N-demethylase activity, cytochrome P450 contentliver weightascorbic acid in urine and liver
cholesterolaminopyrine N-demethylase activity, cytochrome P450 contentliver weightascorbic acid in urine and liver
cholesterolaminopyrine N-demethylase activity, cytochrome P450 contentliver weightascorbic acid in urine and liver
cholesteroltriglyceride, lipids, phospholipidliver weight
cholesteroltriglyceride, lipids, phospholipidliver weight
cholesteroltriglyceride, lipids, phospholipidliver weight
cholesterollipids, triglyceride, phospholipidliver weighturinary ascorbic acid
cholesterollipids, triglyceride, phospholipidliver weighturinary ascorbic acid
cholesterollipids, triglyceride, phospholipidliver weighturinary ascorbic acid
cholesterollipids, triglyceride, phospholipidliver weighturinary ascorbic acid
number of implantation sites per pregnant female, number of whelps born per pregnant female
delivering females, percent of mated
liver enzyme inductionrelative liver weight
liver enzyme inductionrelative liver weight
cholesterolliver weight
cholesterolliver weight
liver ascorbic acid, liver riboflavin, formation of ascorbic acid from D-glucuronolactone in liver homogenate, catabolism c
length of the oestrous cycle
cholesterolhepatic microsomal enzymes (cytochrome P-450, NADPH-cytochrome c reductase, -p-nitroanisole O-demethyl
cholesterolhepatic microsomal enzymes (cytochrome P-450, NADPH-cytochrome c reductase, -p-nitroanisole O-demethyl
cholesterolhepatic microsomal enzymes (cytochrome P-450, NADPH-cytochrome c reductase, -p-nitroanisole O-demethyl
cholesterolhepatic microsomal enzymes (cytochrome P-450, NADPH-cytochrome c reductase, -p-nitroanisole O-demethyl
vitamin A and E
serum alpha-tocopherolascorbic acid in liver tissue
serum alpha-tocopherolascorbic acid in liver tissue
testis weight
liver weight
_
mating index

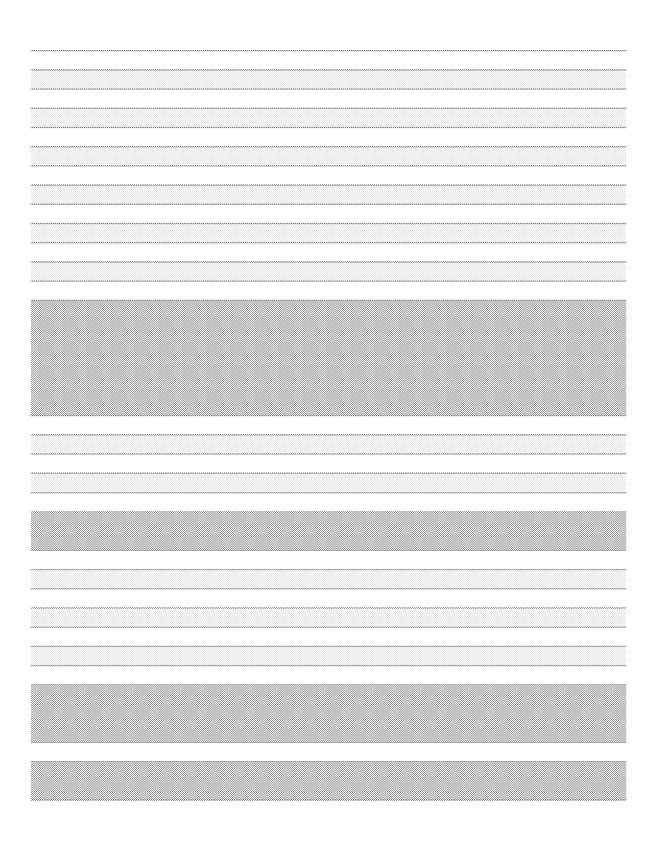
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Pregnancy/conception rate	Reproductive
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Estrous/menstrual cycle characteristics	Reproductive
Cholesterol	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Micronutrients	Hepatobiliary
Cholesterol	Hepatobiliary
Micronutrients	Hepatobiliary
Reproductive organ size/weight, male	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Sexual behavior	Nervous System

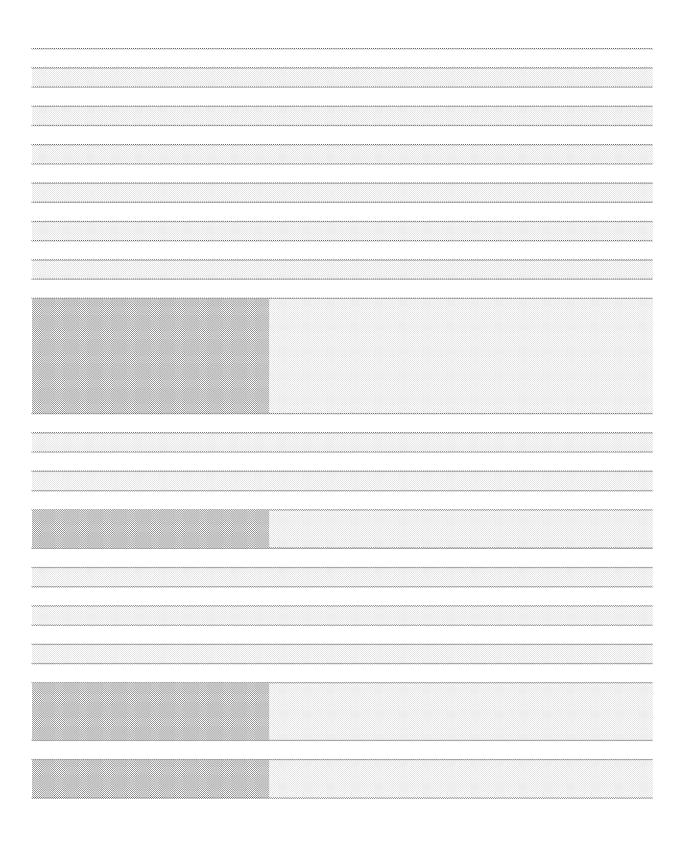
Aroclor 1248								 		 			 	 		 	
Aroclor 1248								 		 			 	 		 	
PCBs								 		 			 	 		 	
PCBs								 		 			 	 		 	
PCBs								 		 			 	 		 	
PCBs																	
Aroclor 1248								 		 			 	 		 	
Aroclor 1248										 						 	
Aroclor 1248								 		 			 	 		 	
Aroclor 1248								 		 				 		 	
Aroclor 1248					*****		******	 	*****	 			 	 		 	
Aroclor 1248								 		 			 	 		 	
Aroclor 1248					****			 		 			 	 		 	
PCBs																	
PCBs								 		 			 	 		 	
PCBs																	
Aroclor 1248																	
Aroclor 1248																	
Mixture: Kanechlors	300, 4	-00, 50	00, 60	00				 		 			 	 		 	
Clophen A60																	
Kanechlor 400								 		 			 	 		 	
Kanechlor 400								 		 			 	 		 	
Kanechlor 400	***************************************							 		 		•••••	 	 	•••••	 	
Kanechlor 400								 		 			 	 		 	
Aroclor 1242				**********		**********		 		 		******	 	 		 	
PCB-48 (mixture)								 		 			 	 		 	
PCB-48 (mixture)								 		 			 	 		 	
A 1 40E4																	
Aroclor 1254										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	فأفافات والمحاس		بالأخاذ والمحادث			فأفاقا والمحادي	
Aroclor 1254 Aroclor 1254								 									
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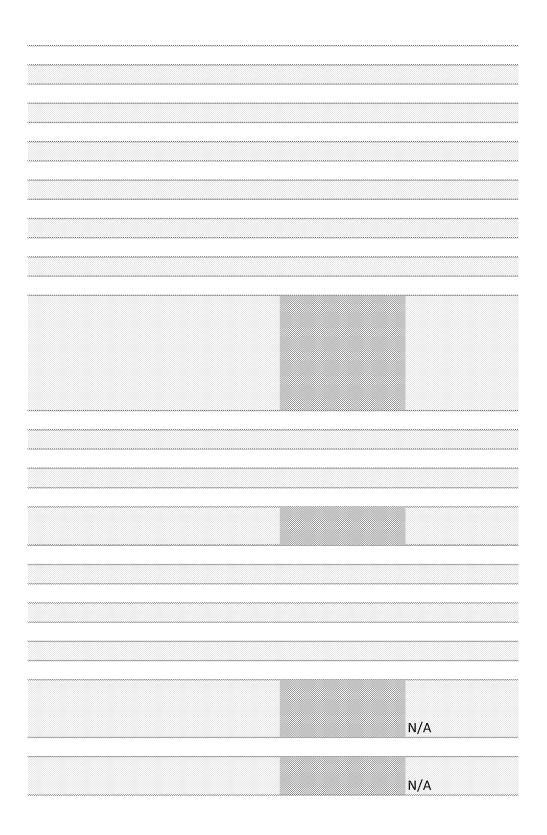
Rat	Oral-diet
Rat	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
Mink	Oral-diet
Rat	CHECK
Rat	CHECK
Rat	Oral-diet
CHECK	CHECK
Rat	Oral-diet
Mink	CHECK
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Rat	Oral-diet
Mouse	Injection-ip

	 	 	 	 	 •••••	 			 	 	 	 	 
	 	 	 	 	 	 	*****	*****	 	 *****	 	 	 
	 		 	 	 	 	*****	*****		 *****	 	 	 
								******		******			
Primary			 	 	 				 	 	 		 
Primary				 	 	 			 	 	 		
Primary													
Primary						 				 			



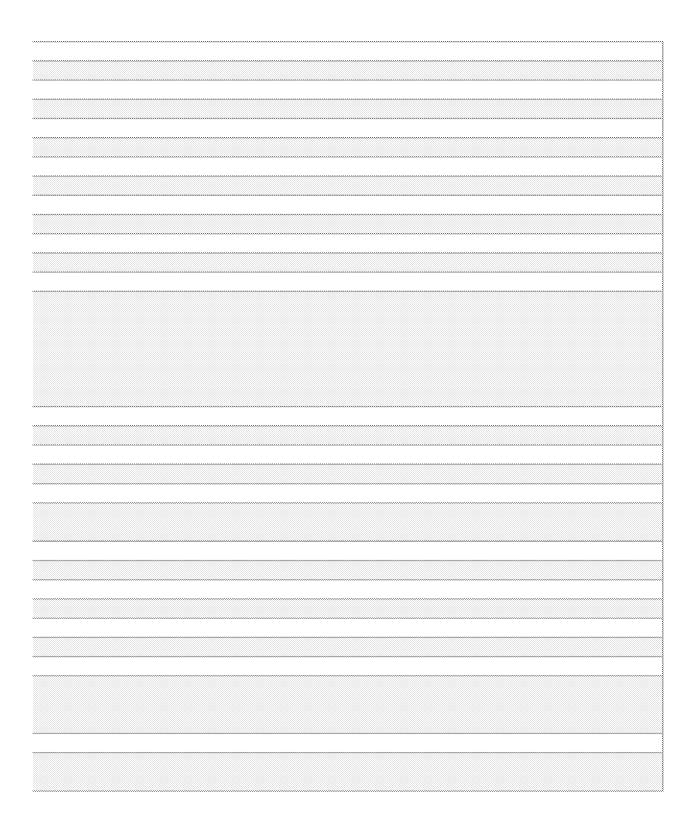






/lale weanl Absolute o						pm foi	r 14 da	ys. The	ere was	no effe	ect on r	elative	testis	weight	(Table	IV).
roclor 124	2 admir	nistere	d as a s	single i	p. dos	e to m	ales at	500 or	1000 m	ng/kg.						
				0'~ '				~.		·or ··b'						

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21 21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	52	0.9	0.312	0.066	5	56
***************************************	52	0.9	0.312	0.066	5	56
	52	0.9	0.312	0.066	5	56
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	52	0.9	0.312	0.066	5	56
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22 22	0.9 0.9	0.094 0.094	0.154 0.154	10 10	21 21



Calandra Calandra	1976 1976	2201050 2201050
Calandra	1976	2201050

mating index		
mating index		
mating index	 	 
mating index		
Traung mucx		
mating index		
litter size, frequency of pregnancy		
incer size, in equency of programmy		
litter size, frequency of pregnancy		
litter size, frequency of pregnancy		

Sexual behavior	Nervous System
Sexual behavior	

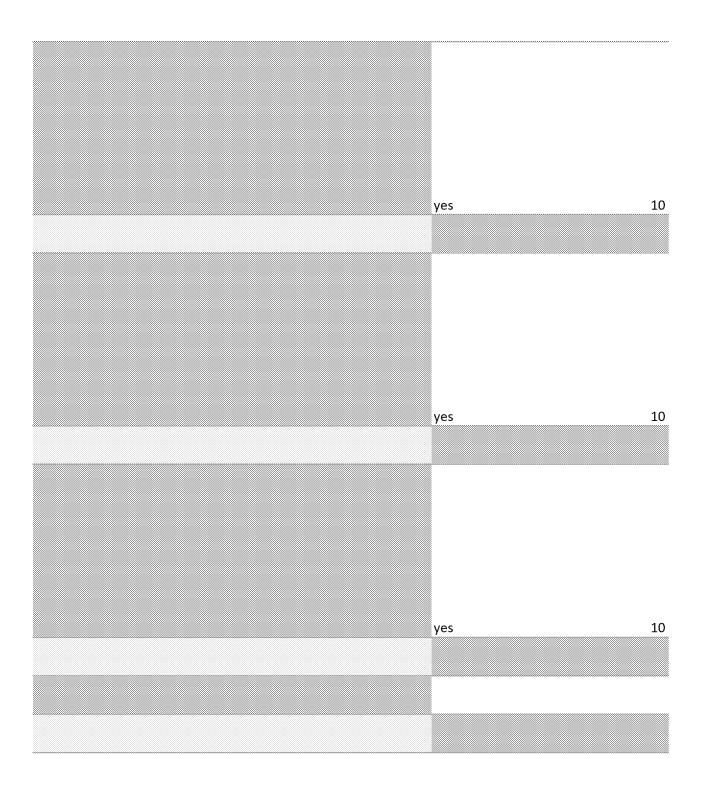
Sexual behavior	Nervous System
	Nervous System

Sexual behavior	Nervous System	
Pregnancy/conception rate	Reproductive	
Pregnancy/conception rate	Reproductive	

Aroclor 1254	 	 	************	 	 	 	
Aroclor 1254	 	 		 	 	 	
Aroclor 1260							
11001011200		 			 	 	
Aroclor 1260							
Aroclor 1242	 	 		 	 	 	
Aroclor 1242							
Arocior 1242		 		 	 	 	
Aroclor 1254							

Rat	Oral-diet
Mouse	Injection-ip
Rat	Oral-diet
Mouse	Injection-ip
Rat	Oral-diet
Mouse	Injection-ip
Rat	Oral-diet
Mouse	Injection-ip

Secondary		
Primary		
Secondary		
Primary		
Secondary		
Primary		
Secondary		
Primary		

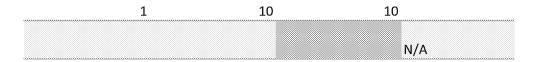


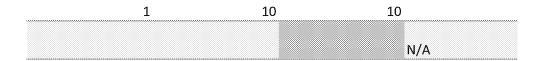
-78 -78 -78 

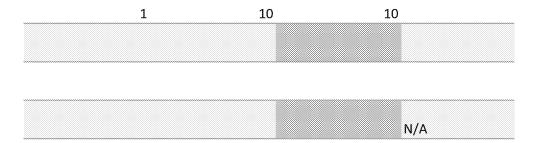
156	5	3	1	100

156	5	3	1	100

3	1	100
3	1	100
3	1	100
	3 3 3	3 1 3 1 3 1







Albino rats were used in a 3-generation reproduction study (study design shown in Table 10). No information is provided on the duration of exposure; assume exposure begins at F0 mating (conception of F1 generation) and that F1, F2, and F3 generations are mated at sexual maturity (56 d). Litter size is NR; use default. Decreased mating index was observed in the second and third generations (described qualitatively in Table 12).		
Aroclor 1254 administered as a single i.p. dose to males at 500 or 1000 mg/kg.		
Albino rats were used in a 3-generation reproduction study (study design shown in Table 10). No information is provided on the duration of exposure; assume exposure begins at F0 mating (conception of F1 generation) and to F2, and F3 generations are mated at sexual maturity (56 d). Litter size is NR; use default. Decreased mating index observed in the second and third generations (described qualitatively in Table 12).		
Aroclor 1260 administered as a single i.p. dose to males at 500 or 1000 mg/kg.		
Albino rats were used in a 3-generation reproduction study (study design shown in Table 10). No information is provided on the duration of exposure; assume exposure begins at F0 mating (conception of F1 generation) and t F2, and F3 generations are mated at sexual maturity (56 d). Litter size is NR; use default. Decreased mating index observed in the second and third generations (described qualitatively in Table 12).		
Aroclor 1254 administered as a single i.p. dose to males at 500 or 1000 mg/kg.		

22	0.9	0.094	0.154	10	21
			0.004	-	
18	0.9	0.229	0.264	6	

22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21

 22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21



Calandra	1976	2201050
Calandra	1976	2201050
Honda et al.	1983	2202042
Honda et al.	1983	2202042
Honda et al.	1983	2202042
Greene et al.	1973	2202075
Grant et al.	1972	2204253
Grant et al.	1972	2204253
Grant et al.	1972	2204253
Buha et al.	2015	2845418
Buha et al.	2015	2845418
Buha et al.	2015	2845418
Esteban et al.	2014	2845420
Esteban et al.	2014	2845420
Esteban et al.	2014	2845420
Liu et al.	2015	2849093
Reilly et al.	2015	2919758

litter size, frequency of pregnancy
litter size, frequency of pregnancy
litter size, frequency of pregnancy
liver gross and microscopic pathologyliver weightSAP, SGPT, SGOT
liver gross and microscopic pathologyliver weightSAP, SGPT, SGOT
liver gross and microscopic pathologyliver weightSAP, SGPT, SGOT
liver histopathology (examination fluorecent microscope) liver weight, liver/body weight ratioliver poryphrin (coproporp
liver histopathology (examination fluorecent microscope)liver weight, liver/body weight ratioliver poryphrin (coproporp
liver histopathology (examination fluorecent microscope) liver weight, liver/body weight ratioliver poryphrin (coproporp
liver histopathology (light and electron microscopy of liver sections)
brain weight
hroin weight
brain weight liver weight
hepatic CuZn-SODserum ALT, AST, ALP
hepatic CuZn-SODserum ALT, AST, ALP
hepatic CuZn-SODserum ALT, AST, ALP
hepatic EROD, PROD and BROD enzymesliver weighthepatic retinoids and retinoid metabolites (hepatic retinyl palmitate
hepatic EROD, PROD and BROD enzymesliver weighthepatic retinoids and retinoid metabolites (hepatic retinyl palmitate
hepatic EROD, PROD and BROD enzymesliver weighthepatic retinoids and retinoid metabolites (hepatic retinyl palmitate
histopathological changes in ovary
pup weight

Pregnancy/conception rate	Reproductive
Pregnancy/conception rate	Reproductive
Pregnancy/conception rate	Reproductive
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Porphyrins	Hepatobiliary
Liver Histopathology	Hepatobiliary

Brain-histological, structural, morphological	Nervous System
Brain-histological, structural, morphological	Nervous System
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Micronutrients	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Liver Enzyme Induction	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Micronutrients	Hepatobiliary
Reproductive organ histopathology, female	Reproductive

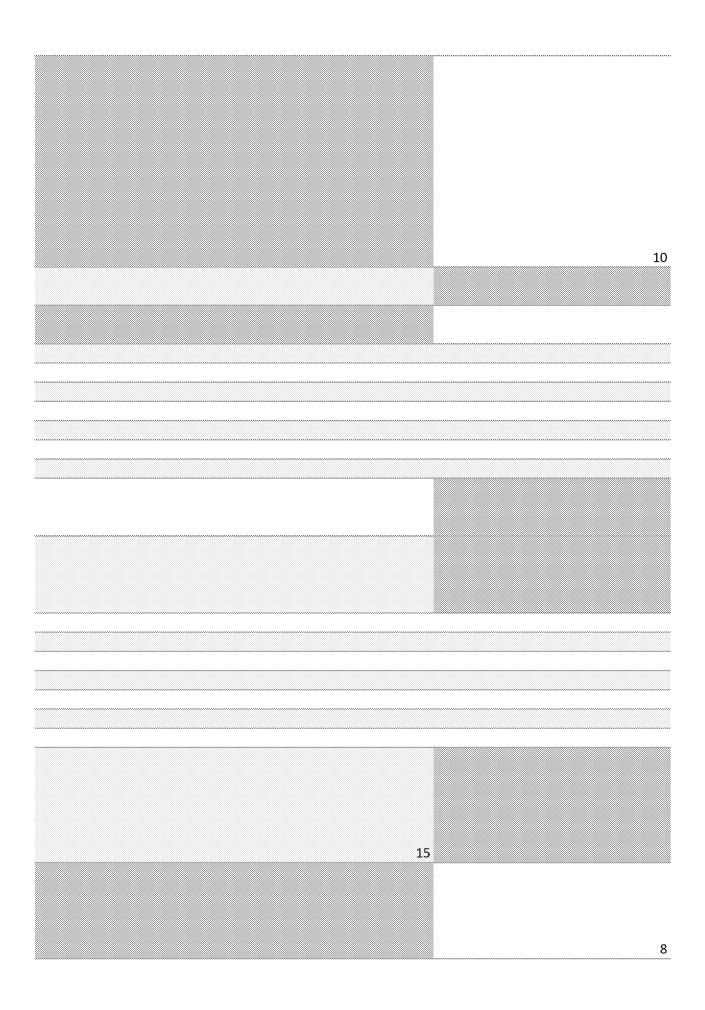
Weight and size (early life)	Developmental

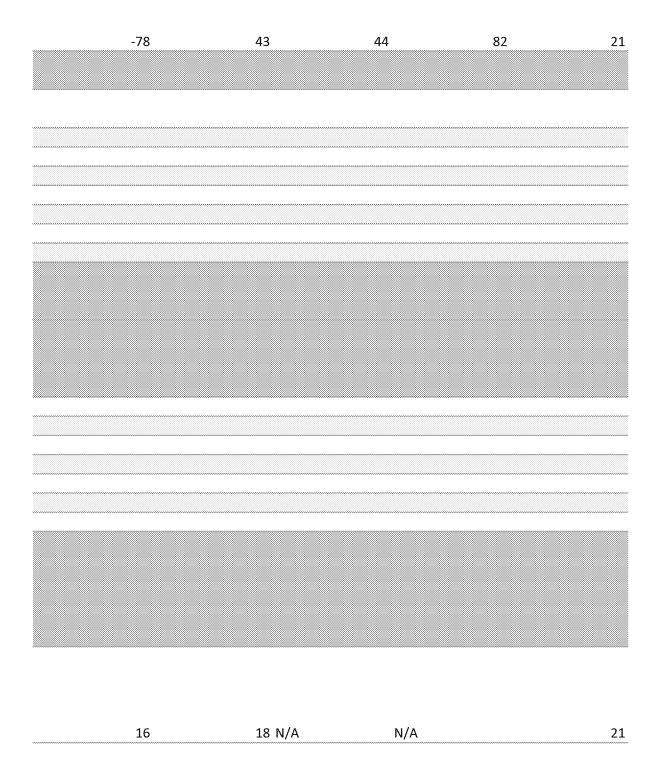
Aroclor 1254
Aroclor 1260
Aroclor 1260
Aroclor 1242Aroclor 1254Aroclor 1260
Aroclor 1242Aroclor 1254Aroclor 1260
Aroclor 1242Aroclor 1254Aroclor 1260
Kanechlor 400
Kanechlor 400
Kanechlor 400
Aroclor 1221Aroclor 1242Aroclor 1254
Aroclor 1254
Aroclor 1221
Aroclor 1221Aroclor 1254
Aroclor 1254
Aroclor 1254
Aroclor 1254
Aroclor 1254
Aroclor 1254
Aroclor 1254
Aroclor 1254

Aroclor 1221

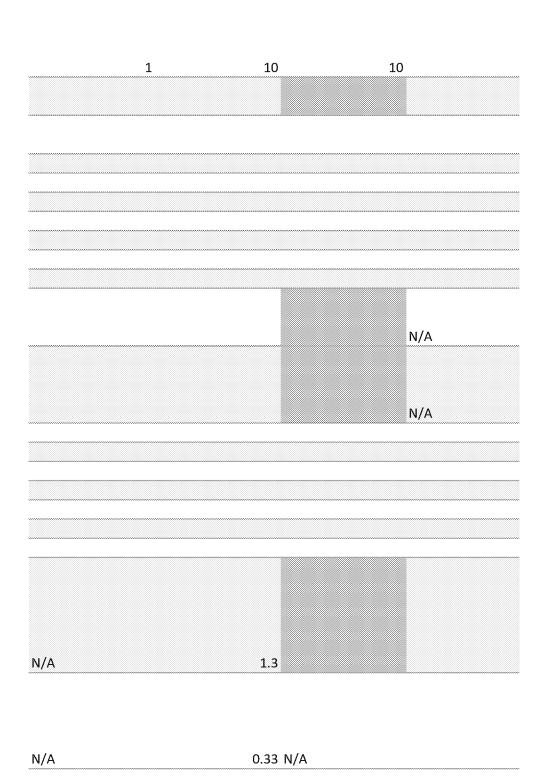
Rat	Oral-diet
Mouse	Injection-ip
Rat	Oral-diet
Mouse	Oral-gavage
Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-gavage
 Rat	Oral-diet
Rat	Oral-diet
 Rat	Oral-diet
Mouse	Injection-ip
Rat	Injection-ip

Secondary	
Primary	
Secondary	
Primary	
Primary	
Primary	90
	90
Secondary	



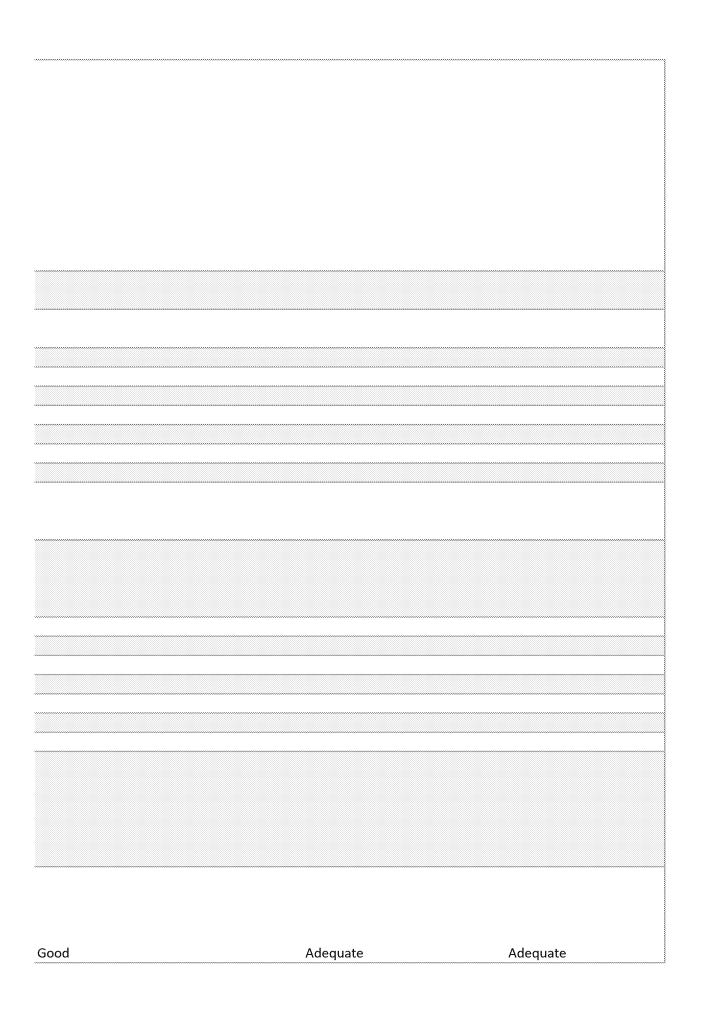


3	1	100
3	1	100
3	1	100
2	1.3	33.3
2	0.33	0.67



Albino rats were used in a 3-generation reproduction study (study design shown in Table 10). No information is provided on the duration of exposure; assume exposure begins at F0 mating (conception of F1 generation) and that F1, F2, and F3 generations are mated at sexual maturity (56 d). Litter size is NR; use default. Pregnancy rate is influenced only by pre-implantation exposure (GD4 in rats). Decreased incidence of pregnancy was observed in the second and third generations (described qualitatively in Table 12).
Female wistar rats (21d) were fed Aroclor 1254 (2-200 ppm) for 1 yr via diet. Brain weight was not influenced by dietary regimens (reported in results text).
Female wistar rats (21d) were fed Aroclor 1221 (2-200ppm) for 1 yr via diet. Brain weight was not influenced by dietary regimens (reported in results text).
Adult female mice were injected ip with 0, 4, 20 or 100 mg/kg-day for ~15 days (doses every 3 days X 5) and mice were sacrificed after treatment. LOAEL based on the significant decrease in the number of primordial follicles, antral follicles, and total follicles (Figure 1). Starting age NR; assume 90 d (22 g female mice).
Dosing on GD16&18 (rats); pup body weight altered by PND90 Doses of 0.5 and 1 mg/kg administered 2x over three days Litters were culled to 8 pups each on PND1

 22	0.9	0.094	0.154	10	21
18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21



Reilly et al.	2015	2919758
Reilly et al. Reilly et al.	2015 2015	2919758 2919758
Reilly et al. Reilly et al. Reilly et al.	2015 2015 2015	2919758 2919758 2919758
Cai et al.	2015	2919777
Meyer et al.	2015	2919792
Meyer et al.	2015	2919792
Meyer et al.	2015	2919792
Meyer et al. Meyer et al.	2015 2015	<b>2919792</b> 2919792

adrenal weight					
corticosterone					
sociability					
social novelty					
ovarian weight					
testis weight					
testis weight					
sperm count and sperm motility					
pup brain weight					
pup brain weight					
inhibitory control performance: differe	ential reinforce	ement of low ra	tes (DRL) 15 pe	rformance (ratio	of
reinforced:nonreinforced lever presses	s and reinforce	ers earned)			
litter size					
maternal gestational and lactational w	eight gain				
litter size					
maternal gestational and lactational w	reight gain				
dam liver weight (relative), pup liver w		e and relative)			
adminion weight frelative), pup livel w	veignic (absolut	.c and relative)			

Adrenal weight	Endocrine
HPA hormones Social behavior/development	Endocrine Nervous System
Social behavior/development Reproductive organ size/weight, female Reproductive organ size/weight, male	Nervous System Reproductive Reproductive
Sperm/semen parameters	Reproductive
Brain-histological, structural, morphological	Nervous System

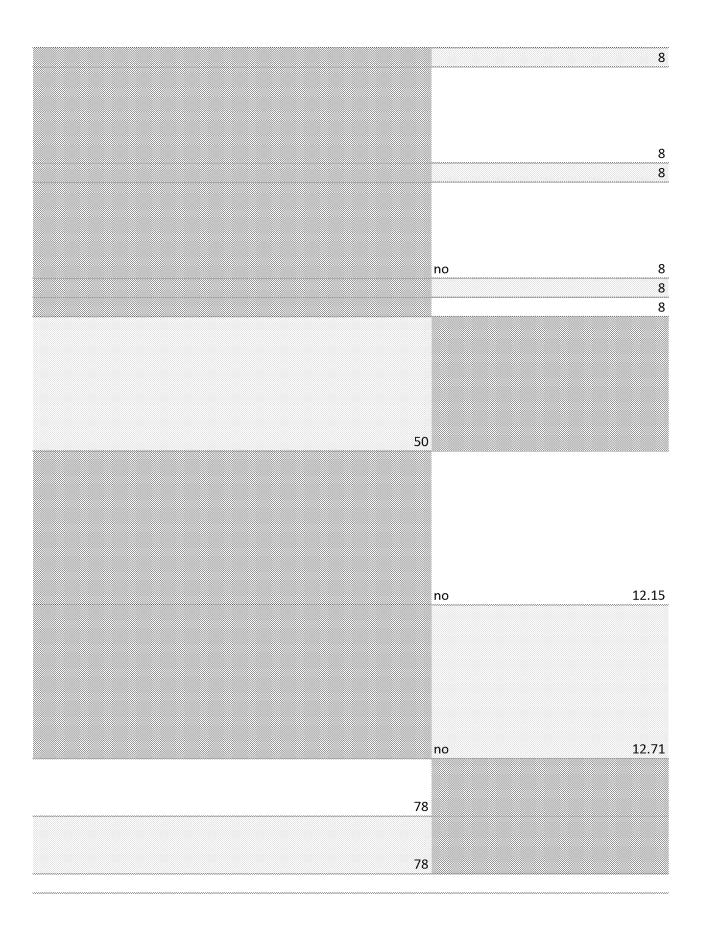
Cognitive function	Nervous System
Maternal weight gain	Reproductive
Pregnancy/conception rate Liver Weight/Hepatomegaly	Reproductive Hepatobiliary

Aroclor 1221				
Aroclor 1221				****
Aroclor 1221				
Aroclor 1221				
Aroclor 1221	 	 	 	
Aroclor 1221	 	 	 	
Aroclor 1254				
Fox River PCB mixture				
Fox River PCB mixture	 		 	
Fox River PCB mixture				
Fox River PCB mixture				
Fox River PCB mixture				
TOA MIVEL I CD IIIIAUITE	 	 	 	

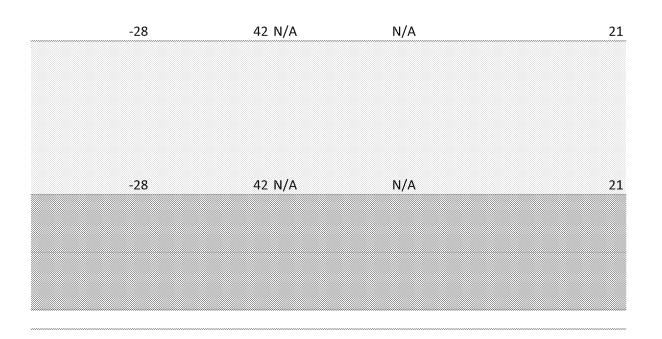
Rat	Injection-ip
Rat Rat	Injection-ip Injection-ip
Rat Rat	Injection-ip Injection-ip
Rat	Injection-ip
 Mouse	Oral-gavage

Rat	Oral-cookie	
Rat	Oral-cookie	
Rat	Oral-cookie	
Rat	Oral-cookie	
Rat		
Ndl		

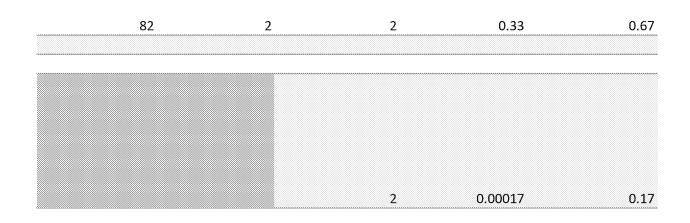
Secondary	
Secondary	
Secondary	
Secondary	
Secondary Secondary	
3333.133.7	
	-
Primary	21
Carandani	
Secondary	
Cd	
Secondary	
Primary	
Primary	

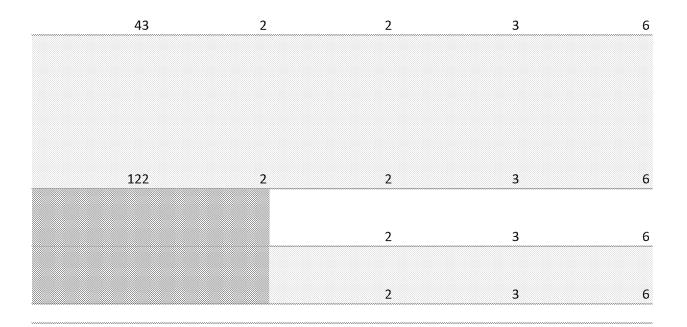


16	18 N/A	N/A	
16 16	18 N/A 18 N/A	N/A N/A	21
16 16	18 N/A 18 N/A	N/A N/A	21
16	18 N/A	N/A	



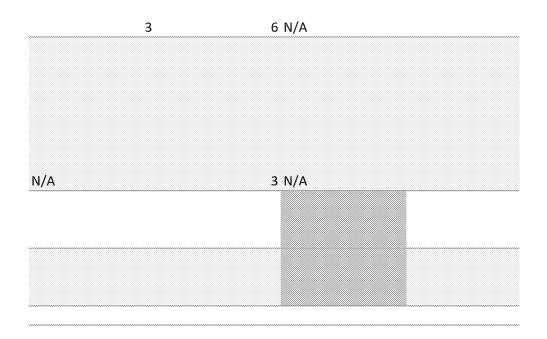
2 0.33 0.67





N/A	0.33 N/A
***********************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	N1/A

N/A	0.33 N/A
	N/A
	N/A
0.0017	0.017





22	0.9	0.094	0.154	10	21
 22 22	0.9	0.094 0.094	0.154 0.154	10 10	21 21
 22 22 22	0.9 0.9 0.9	0.094 0.094 0.094	0.154 0.154 0.154	10 10 10	21 21 21
 18	0.9	0.229	0.264	6	21

22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21

Good	Adequate	Adequate
Good Good	Adequate Adequate	Adequate Adequate
Good	Adequate	Adequate
Good Good	Adequate Adequate	Adequate Adequate

Poon et al.	2015	2920043
Poon et al.	2015	2920043
Poon et al.	2015	2920043
Aly et al.	2014	2920052
Aly et al.	2014	2920052
Aly et al.	2014	2920052
Wahlang et al.	2014	2920275
Wahlang et al.	2014	2920275
Wahlang et al. Wahlang et al.	2014 2014	2920275 2920275
Liu et al.	2014	2920289
Liu et al.	2014	2920289
Liu et al.	2014	2920289
Naveau et al.	2014	2920420

audiogenic seizures	
litter size	
pregnancy rate	
liver weight	
total cholesterolliver weightserum activities of alanine aminotrar	osferase, aspartate aminotransferase, alkaline phosphata
total cholesterolliver weightserum activities of alanine aminotrar	isterase, aspartate aminotransferase, alkaline phosphata
total cholesterolliver weightserum activities of alanine aminotrar	isferase, aspartate aminotransferase, alkaline phosphata
liver cholesterol content, serum cholesterolliver histopathologyliv	
liver cholesterol content, serum cholesterolliver histopathologyliv	/er triglyceride contentALI, ASI
liver cholesterol content, serum cholesterolliver histopathologyliv	ver triglyceride contentALT, AST
liver cholesterol content, serum cholesterolliver histopathologyliv	ver triglyceride contentAIT AST
Tiver difference contents, serain difference invertinscopation of	rer disgryceriae contentral, nor
rate of ovulation	
Tate of ovaliation	
accute activation in vitra fartilization and ambrua devalorment	
oocyte activation, in vitro fertilization, and embryo development	
ovarian histopathology (spindle morphology)	
fetal cerebral cortex development: neuronal progenitor prolifera radial migration, and cortical laminar organization	tion, cell cycle exit, differentiation rate, cell death,
radiai migration, and cortical laminal organization	

Sensory function	Nervous System
Pregnancy/conception rate	Reproductive
Liver Weight/Hepatomegaly	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Cholesterol	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Ovulation	Reproductive

Pregnancy/conception rate	Reproductive	
Reproductive organ histopathology, female	Reproductive	

Brain-histological, structural, morphological

Nervous System

Fox River PCB mixture		
Fox River PCB mixture		
Fox River PCB mixture		
Aroclor 1260	 	 
Aroclor 1260		
Aroclor 1260	 	 
Aroclor 1260		
Aroclor 1260	 	 
Aroclor 1260		
Aroclor 1260	 	 
Aroclor 1254		
11.000 4201		



Aroclor 1254

Rat	Oral-cookie
Rat	Oral-cookie
 Rat	Oral-cookie
Rat	Oral-gavage
Rat	Oral-gavage
Rat	Oral-gavage
Mouse	Oral-diet
Mouse	Injection-ip

Mouse	Injection-ip	

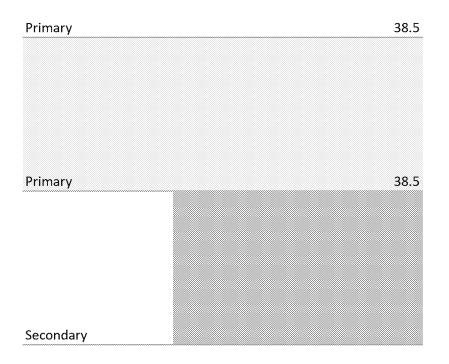
Mouse

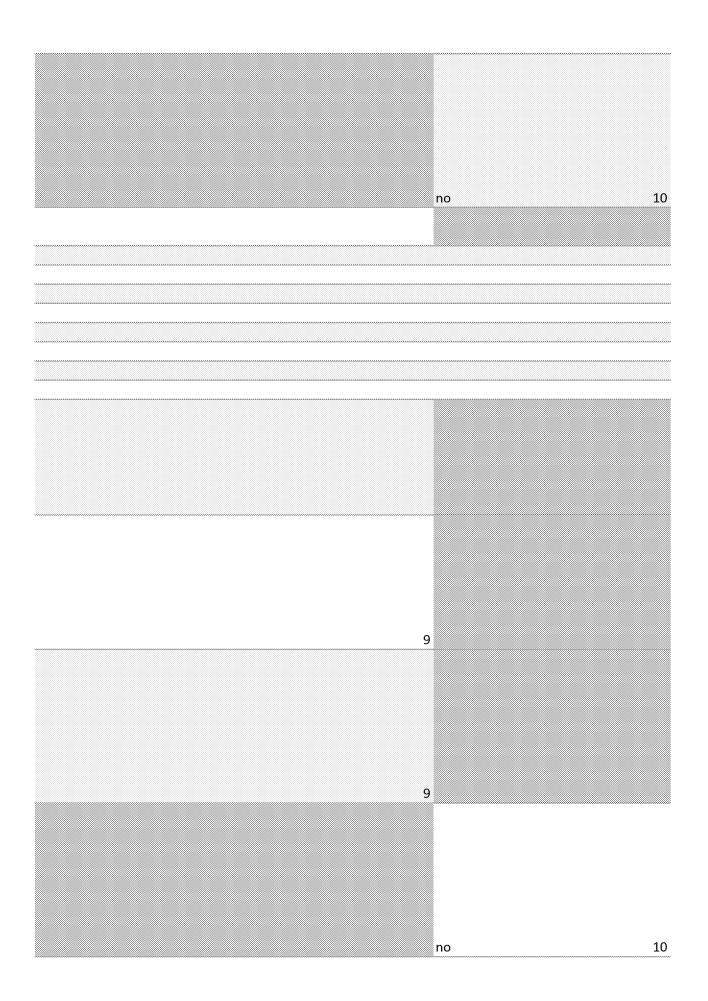
Rat

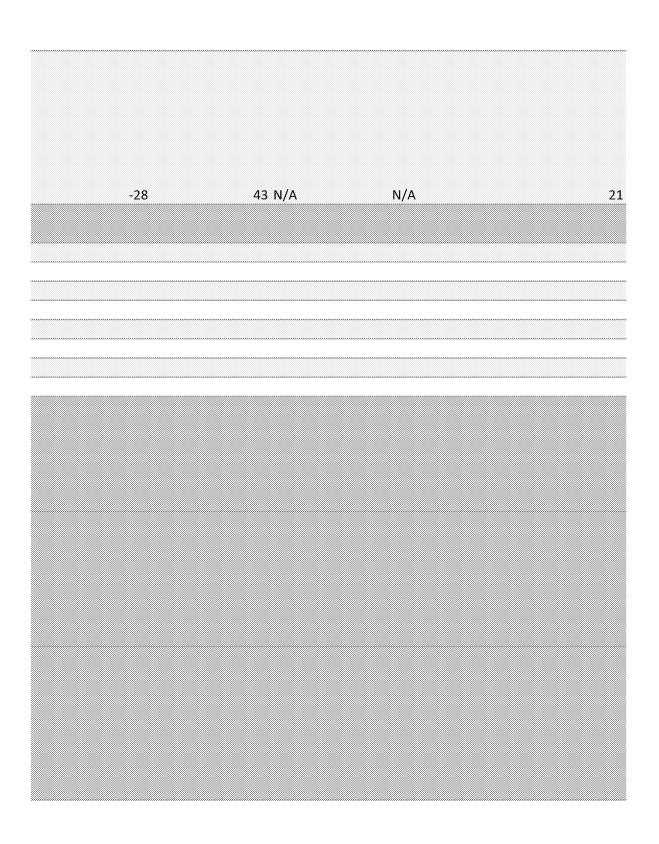
Injection-ip

Oral-cookie

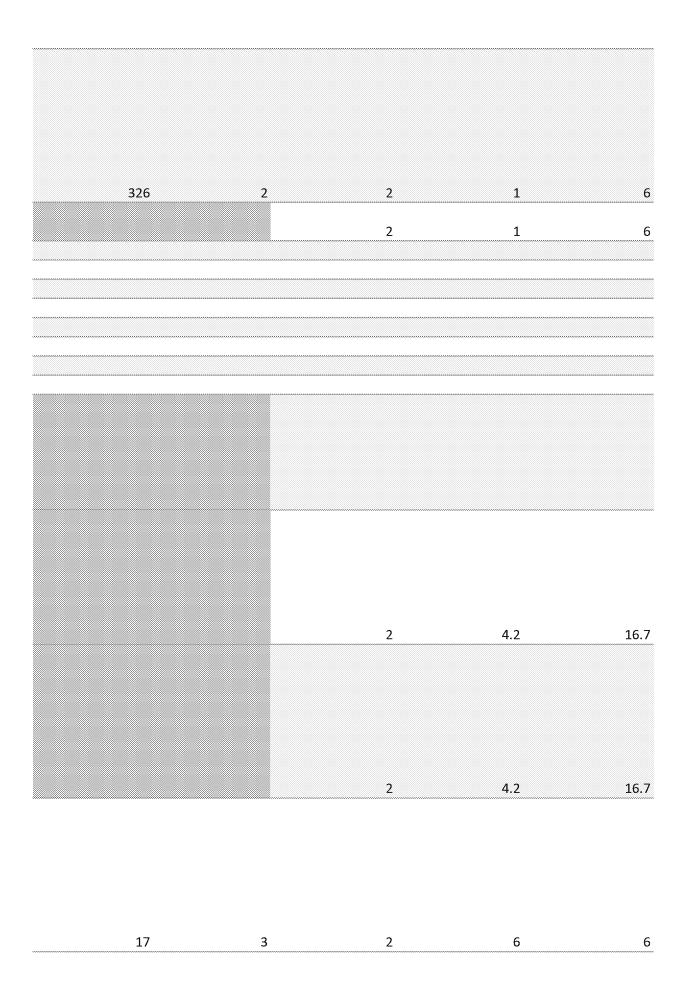
Secondary			
Primary			
	 	 	**********
Primary			

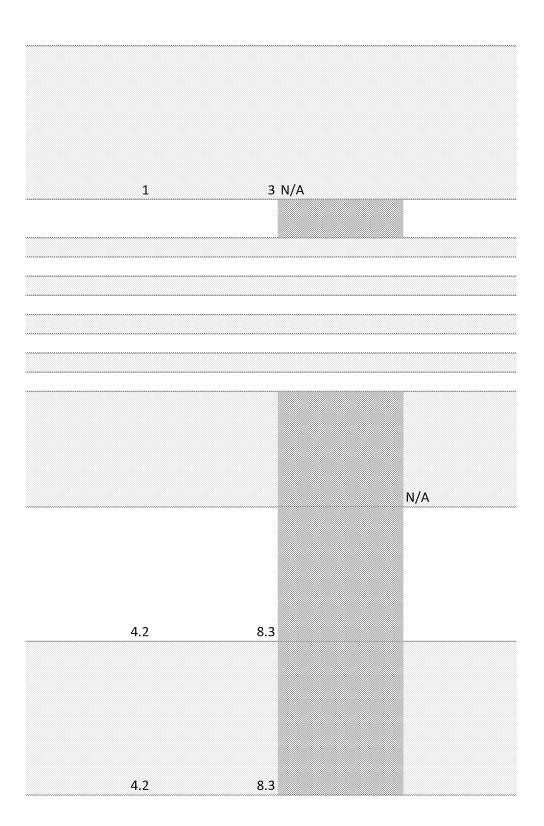




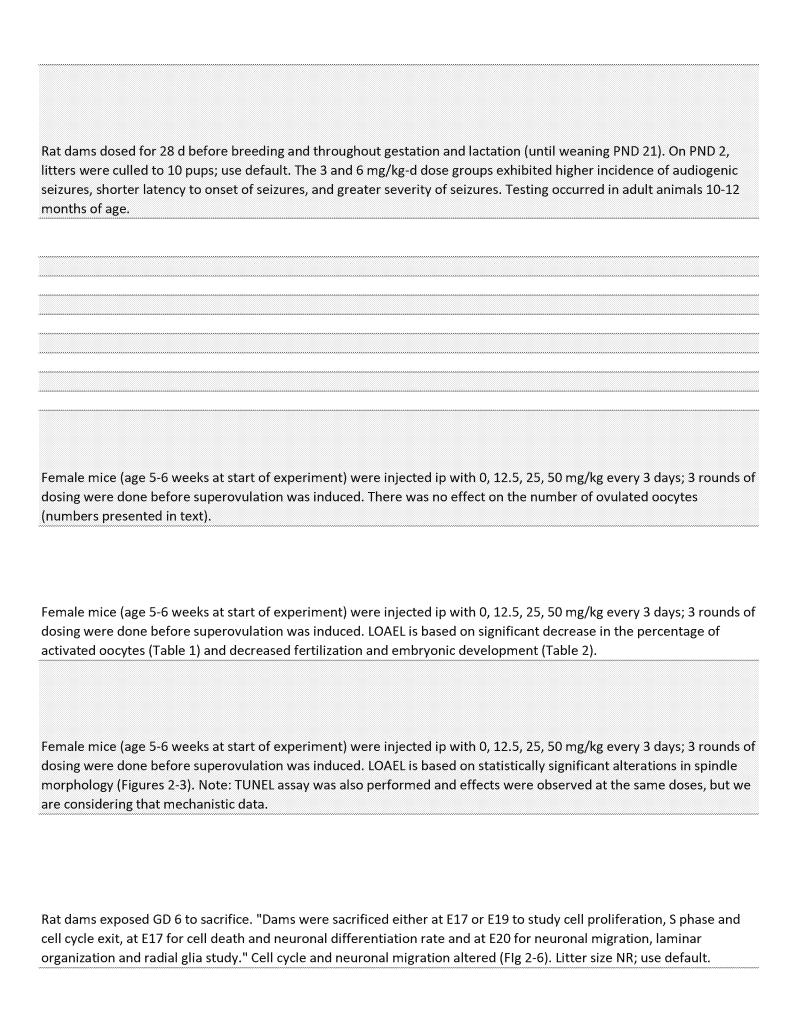


6 17 N/A N/A 0





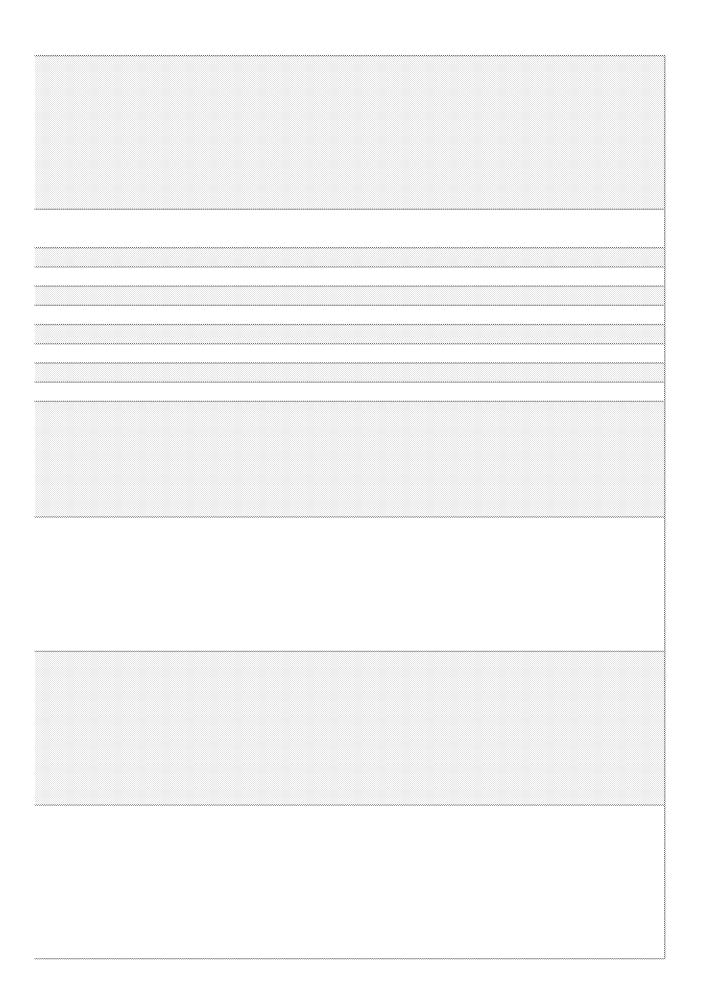
N/A 6 N/A



	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
***************************************	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	10	0.5	0.223	0.204	U	21

 18	0.9	0.229	0.264	6	21
10	0.0	0.330	0.264	6	21
 18	0.9	0.229	0.264	O	21

22	0.9	0.094	0.154	10	21



Nam et al.	2014	2920493
Nam et al.	2014	2920493
Nam et al.	2014	2920493
Nam et al.	2014	2920493
Train ce an	2011	2320133
Hu et al.	2015	3005022
nu et al.	2013	3003022
	2045	2005020
Hu et al.	2015	3005022
Hu et al.	2015	3005022
Hu et al.	2015	3005022
Hu et al.	2015	3005022
Lombardo et al.	2015	3007891
Loring Co.	2013	300,031
Lombardo et al.	2015	3007891
Folland et al.	2015	3063353
Folland et al.	2015	3063353
Folland et al.	2015	3063353
Elnar et al.	2016	3121413

open field behavior										
open neid benavior										
novel object recognition										
open field behavior										
elevated plus maze										*******
histological changes in uterus										
uterine weight										
histological changes in uterus										
uterine weight										
metabolic enzymes (CYP1A1, 1A	2, 1B1, 2A1, 2E	31, 3A23,	/3A1, UG	T1A1, GS	TA2, SUL	T1A1, 2A1	L, and 1E	1)liver hi	stopatholo	ogy
metabolic enzymes (CYP1A1, 1A	2, 1B1, 2A1, 2E	31, 3A23,	/3A1, UG	T1A1, GS	TA2, SUL	T1A1, 2A1	L, and 1E	1)liver hi	stopatholo	ogy
metabolic enzymes (CYP1A1, 1A	2, 1B1, 2A1, 2E	31, 3A23,	/3A1, UG	Γ1Α1, GS	TA2, SUL	T1A1, 2A1	L, and 1E	1)liver hi	stopatholo	ogy
hyperactivity										
operant conditioning										
EROD activityhistopathology exa	minationliver	weight								
EROD activityhistopathology exa	******************************	********								
EROD activityhistopathology exa										
Enob ded vity instopation of y exa	minationliver	weight								
Enob dod vitymstopathology exa	minationliver	weight								
short-term spatial memory (Y-ma		weight								

Activity level	Nervous System

Cognitive function	Nervous System
Emotional state/affective behavior	Nervous System

Emotional state/affective behavior	Nervous System		
Reproductive organ histopathology, female	Reproductive		
Reproductive organ size/weight, female	Reproductive		
Reproductive organ size/weight, female Liver Enzyme Induction	Reproductive Hepatobiliary		

Activity level	Nervous System
Cognitive function	Nervous System
Liver Enzyme Induction	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Weight/Hepatomegaly	Hepatobiliary
Cognitive function	Nervous System

roclor 1254			
100011234			
roclor 1254			
roclor 1254			
roclor 1254			
hicago Air Mixture			
Chicago Air Mixture			
hicago Air Mixture			
hicago Air Mixture hicago Air Mixture			
roclor 1248			
roclor 1248			
roclor 1268			
roclor 1268 roclor 1268			
1 OCIOI 1200			
Mixture: PCBs 28, 52, 101, 13	8. 153. 180		

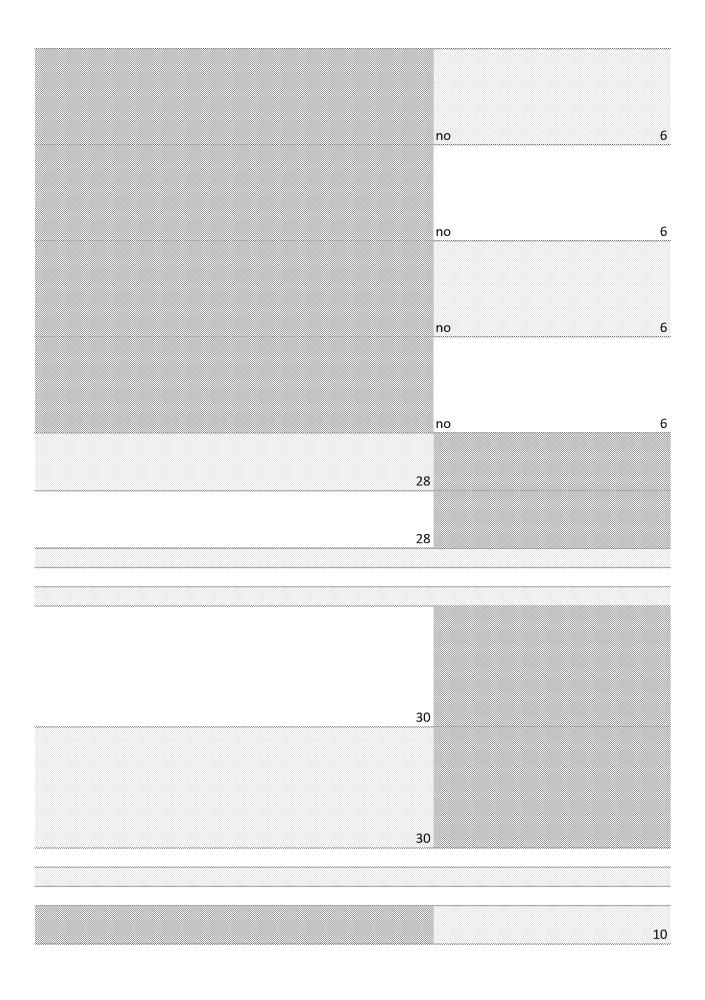
		_
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Mouse	Oral-gavage
	Rat	Inhalation
	Rat	Inhalation
	Rat	Inhalation
	Rat	Inhalation
	B 4 . 1	Ough disk
***************************************	Mink	Oral-diet
	Mink	Oral-diet
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

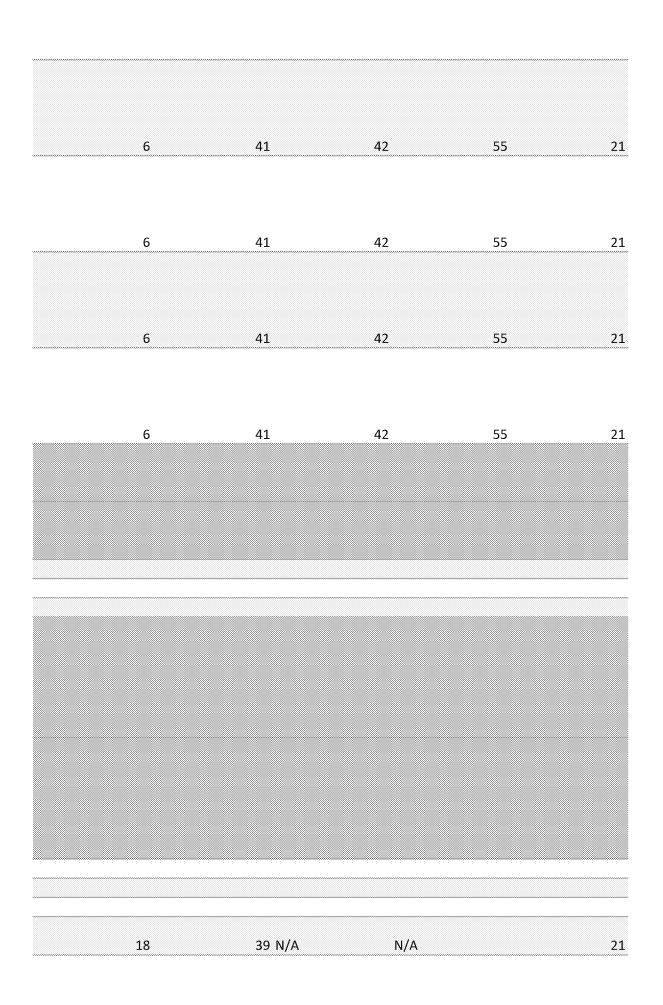
Oral-gavage

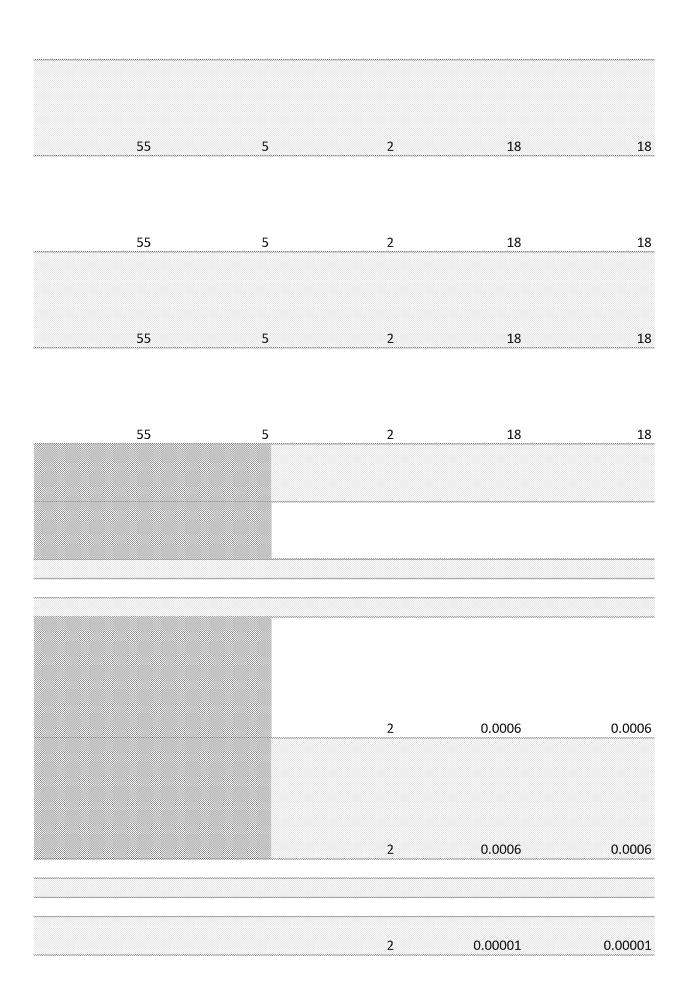
Mouse

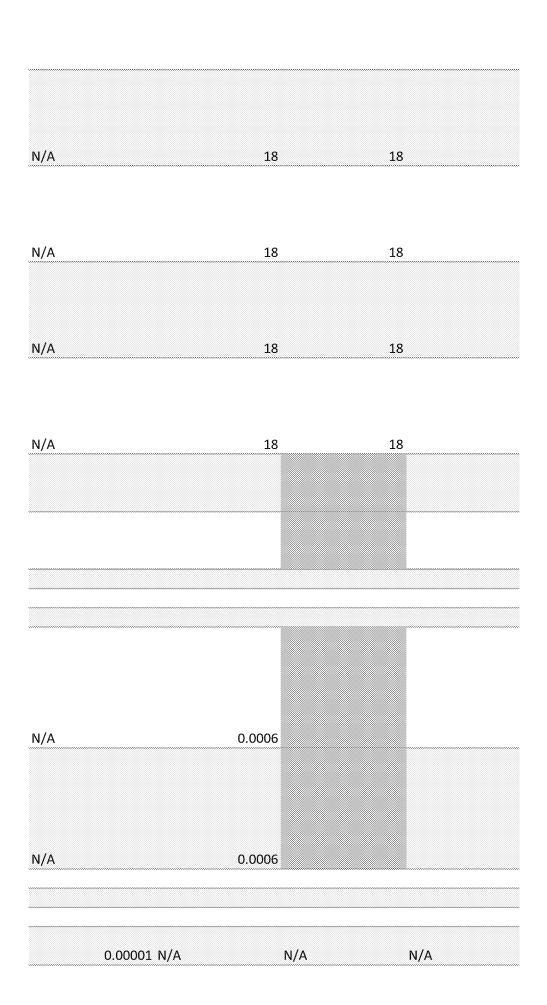
Secondary	
Secondary	
Secondary	
Secondary	
Primary	
Primary	

Primary	35
Primary	35
Secondary	









"Maternal injection of Aroclor1254 (18 mg/kg/day) was performed from GD 6 to PND 21 (total: 35 days). After weaning at PND 21, offspring received Aroclor 1254 (18 mg/kg, p.o.)until PND 35." All outcomes evaluated at PND35. Litter size NR; use default value.
"Maternal injection of Aroclor1254 (18 mg/kg/day) was performed from GD 6 to PND 21 (total: 35 days). After weaning at PND 21, offspring received Aroclor 1254 (18 mg/kg, p.o.)until PND 35." All outcomes evaluated at PND35. Litter size NR; use default value.
"Maternal injection of Aroclor1254 (18 mg/kg/day) was performed from GD 6 to PND 21 (total: 35 days). After weaning at PND 21, offspring received Aroclor 1254 (18 mg/kg, p.o.)until PND 35." All outcomes evaluated at PND35. Litter size NR; use default value.
"Maternal injection of Aroclor1254 (18 mg/kg/day) was performed from GD 6 to PND 21 (total: 35 days). After weaning at PND 21, offspring received Aroclor 1254 (18 mg/kg, p.o.)until PND 35." All outcomes evaluated at PND35. Litter size NR; use default value.
0, 533 ± 93 μg/m3 (whole body or nose)
0, 533 ± 93 μg/m3 (whole body or nose)
Reported concentration of PCBs in air: 562 ng/m ³ ; converted to mg/kg-d using subchronic reference values for body weight (0.267 kg male, 0.204 kg female) and inhalation rate (0.27 m ³ /d male, 0.22 m ³ /d female) provided for Sprague-Dawley rats in EPA 1988. Starting age of animals 35 d as reported in Table 1
Reported concentration of PCBs in air: 562 ng/m³; converted to mg/kg-d using subchronic reference values for body weight (0.267 kg male, 0.204 kg female) and inhalation rate (0.27 m³/d male, 0.22 m³/d female) provided for Sprague-Dawley rats in EPA 1988. Starting age of animals 35 d as reported in Table 1
Litters culled to 10 on PND0

 18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
18	0.9	0.229	0.264	6	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.0	0.004	0.154	10	24
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
52	0.9	0.312	0.154	5	56
 52 52	0.9	0.312	0.066	5 5	56
52	0.9	0.312	0.066	5	56
J	0.5	0.312	0.000	3	30
18	0.9	0.229	0.264	6	21

Adequate	Adequate	Deficient
Adequate	Adequate	Deficient

Bandara et al.	2016	3350985
Sumathi et al.	2016	3351130
Sumathi et al.	2016	3351130
Sumathi et al.	2016	3351130
Sumathi et al.	2016	3351130
Tang et al.	2015	3351160
Bell et al.	2016	3351276
Bell et al.	2016	3351276
Wahlang et al.	2016	3351296
Wahlang et al.	2016	3351296
Wahlang et al.	2016	3351296
Wahlang et al.	2016	3351296
Wahlang et al.	2016	3351296
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306

audiogenic se	izures							
locomotor act	tivity (open	field)						
muscle grip st	trength (rot	arod)						
brain histopat	thology				 			
spatial memo	ry (MWM),	radial arm ı	maze		 			
righting reflex		test respons	se, negative	e geotaxis	 			
sex normone					 			
liver cholester liver cholester anogenital dis eye opening litter size	rol contentl	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			 	***************************************	~~~~~~~~~~	
sex ratio								
pup weight								
pup weight								
pup weight pup weight adrenal weigh								

Sensory function	Nervous System
Activity level	Nervous System
Motor function	Nervous System
Brain-histological, structural, morphological	Nervous System
Cognitive function	Nervous System
Motor function	Nervous System
Sex hormone levels, female	Reproductive
Sex hormone levels, male	Reproductive

Activity level	Nervous System
Cholesterol	Hepatobiliary
Liver Histopathology	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary
Serum Biomarkers of Liver Health & Function	Hepatobiliary
Anogenital distance	Developmental
Developmental milestones	Developmental
Offspring mortality	Developmental
Sex ratio	Developmental
Weight and size (early life)	Developmental

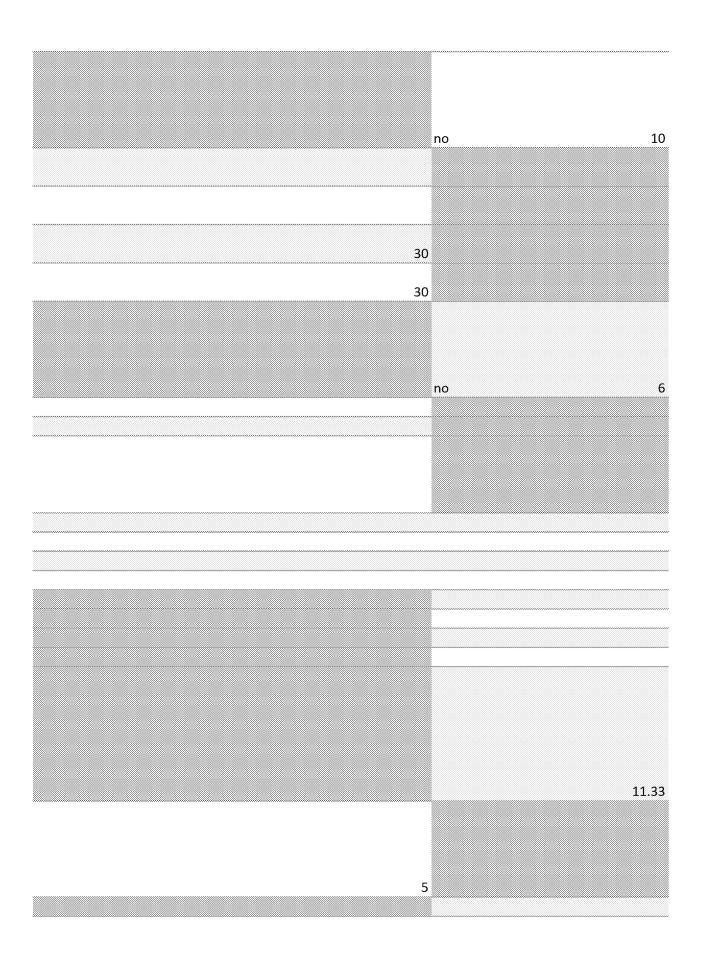
Weight and size (early life)	Developmental
Adrenal weight	Endocrine

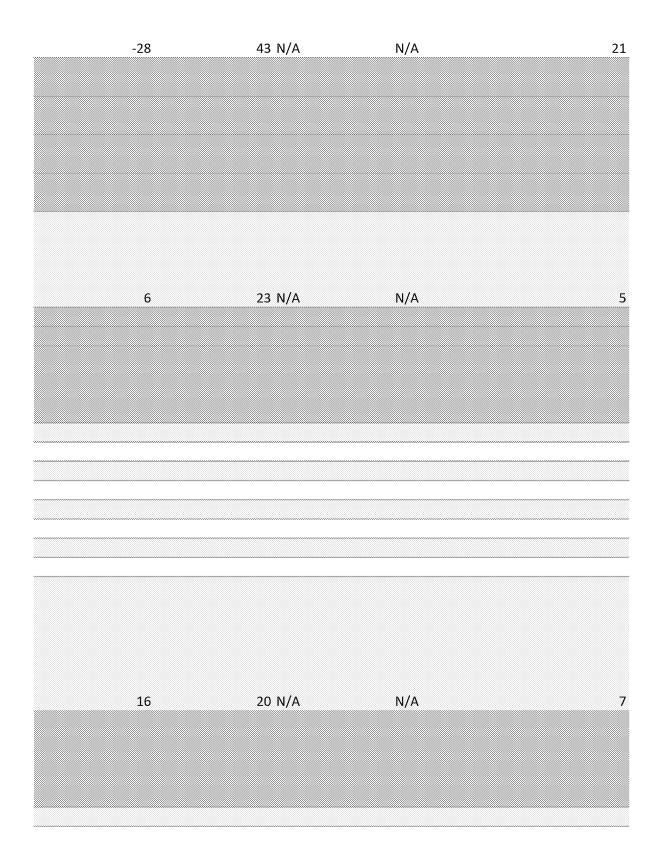
Fox River PCB mixtu	^e
Aroclor 1254	
Aroclor 1254	
Aroclor 1221	
Aroclor 1221	
Aroclor 1260	
Aroclor 1260	
Aroclor 1260	
Aroclor 1260 Aroclor 1260	
Aroclor 1280 Aroclor 1221	
Aroclor 1221	
Aroclor 1221 Aroclor 1221	
Aroclor 1221	
Aroclor 1221	
Aroclor 1221	
Aroclor 1221 Aroclor 1221	

 Rat	Oral-cookie
 Rat	Injection-ip
 Rat	Injection-ip
Rat	Injection-ip
 Rat	Injection-ip
	Oval mariana
 mouse CHECK	Oral-gavage CHECK
 CHECK	CHECK
Mouse	Oral-gavage
 Mouse	Oral-gavage
 Mouse Mouse	Oral gayage
 Mouse	Oral-gavage Oral-gavage
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip

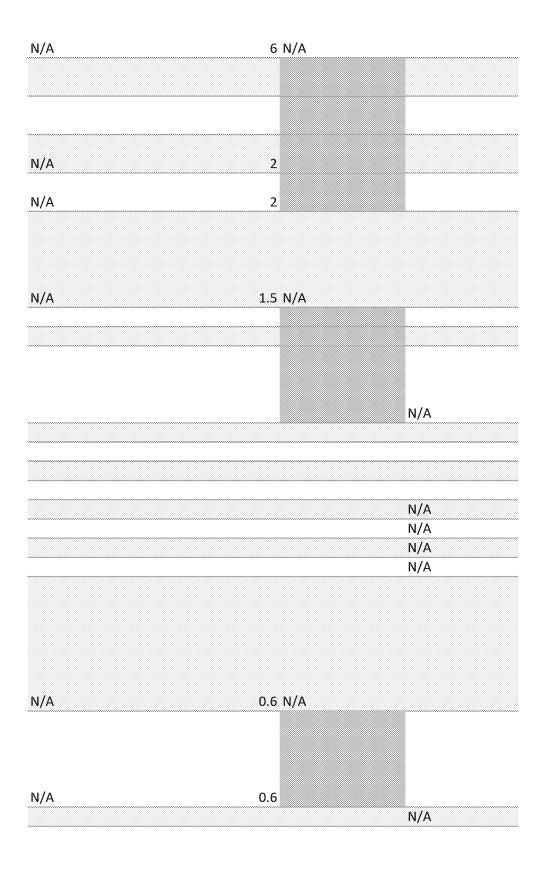
Secondary				
Primary		 		
Primary		 		
Primary	 	 	 	90
Primary				90
Secondary				
Primary Primary		 		
Primary				
Secondary				
Secondary Secondary				
Secondary				
Secondary				
Primary				24

Secondary





112 2	2	6	6
	2	2	7
			2
	2	2	2
23 2	2	1.5	1.5
23 2		1.5	1.5
	2	0.6	0.6
	2	0.6	0.6



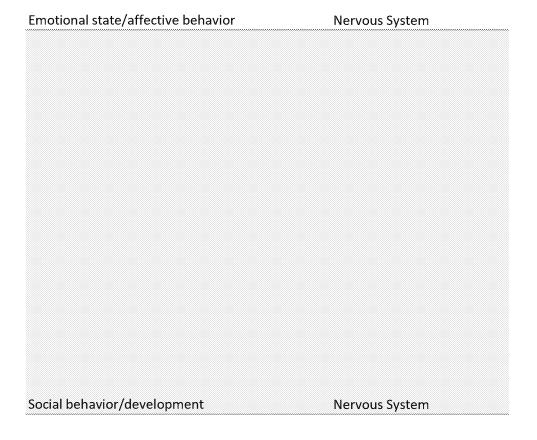
	eeding and throughout gestation and lactation (until weaning PND 21). On PND 2, default. Audiogenic seizures were observed in PCB-exposed group. Testing occurred
Starting age NR; 200-250 g male all	oino rats; assume 90 d
Starting age NR; 200-250 g male all	oino rats; assume 90 d
	. Litter size NR; use default. Culled to 6 pups per litter by PND 1. Postnatal / 2 d from PND 3 to 21. Fig 1 shows the righting reflex/cliff drop/and negative by PND 5.
Single dose (20 mg/kg) in male mid level in wild type mice (Figure 3B).	e (8 wk of age). Activity level assesesd 12 wk later. No effect of exposure on activity
	e (8 wk of age). Activity level assesesd 12 wk later. No effect of exposure on activity
	e (8 wk of age). Activity level assesesd 12 wk later. No effect of exposure on activity
Dams dosed on GD16, 18 & 20; pur Mean litter size of LOAEL dose grou	

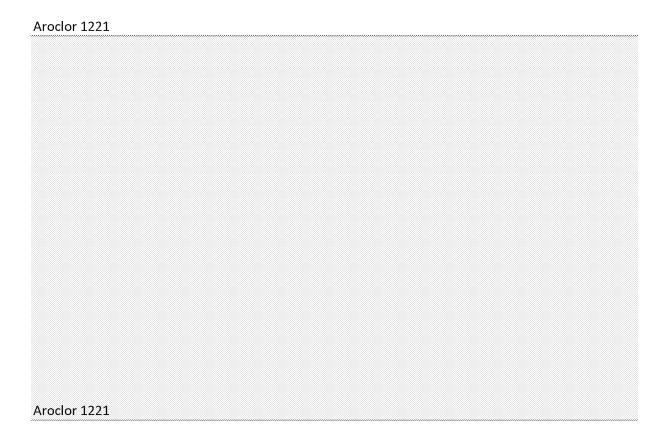
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	18	0.9	0.229	0.264	6	21
CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
***************************************	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.0	0.004	0.154	10	24
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21

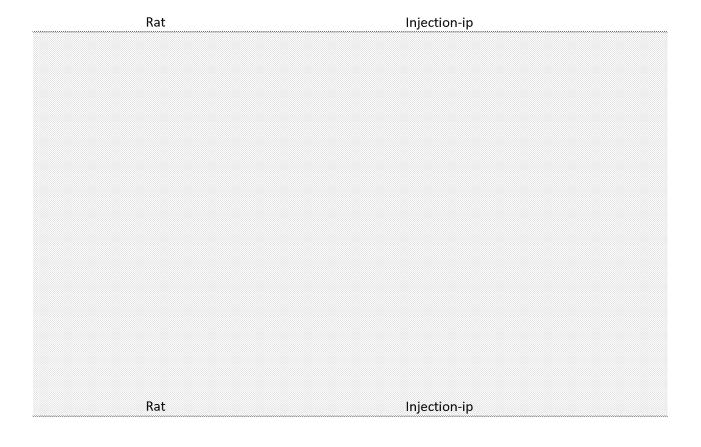
Adequate	Good	Adequate
Adequate	Good	Adequate
Adequate Adequate	Good	Adequate Adequate
Adequate Adequate	Good Good	Adequate
Not reported (interpreted as Deficient)	Good	Adequate
Not reported (interpreted as Deficient)	Good	Adequate
Not reported (interpreted as Deficient)	Good	Adequate
Not reported (interpreted as Deficient)	Good	Adequate

Bell et al.	2016	3351306
Bell et al.	2016	3351306

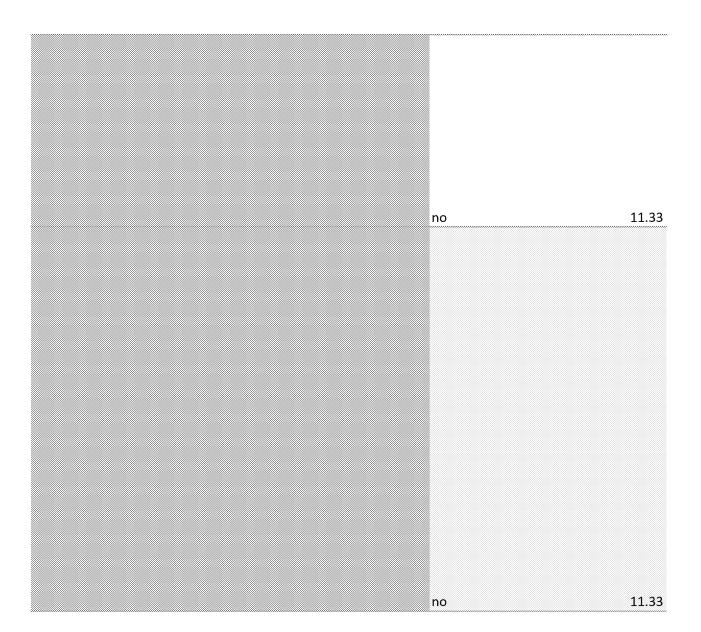


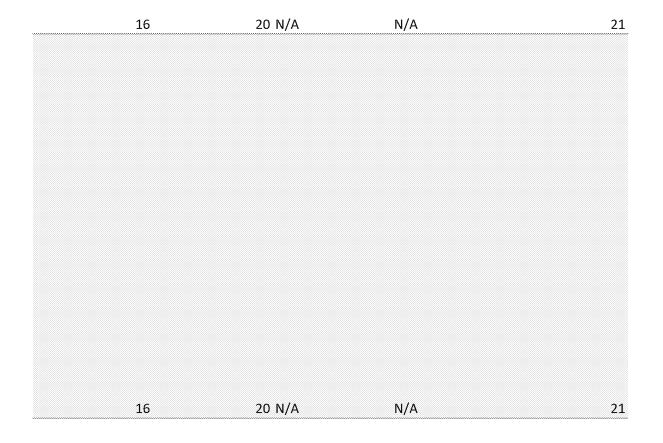


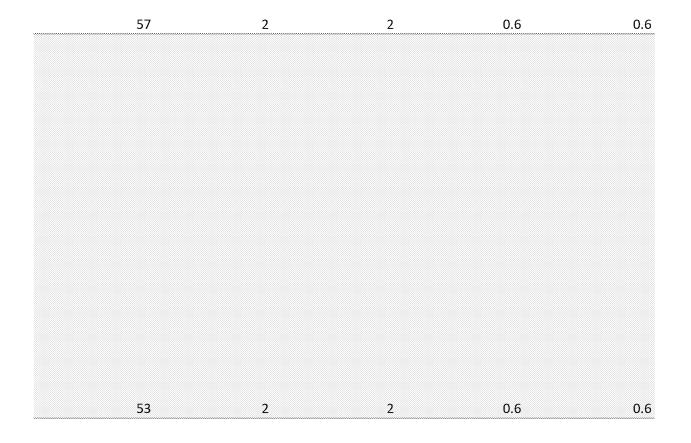


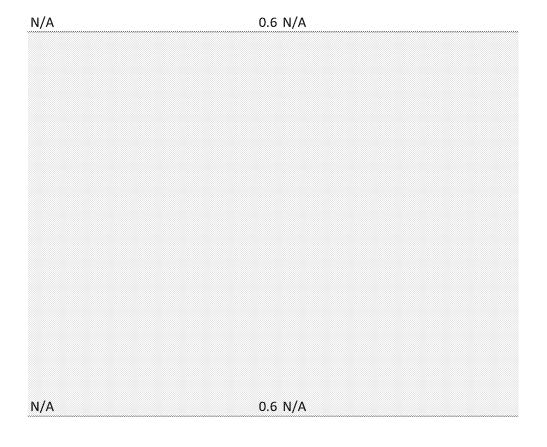


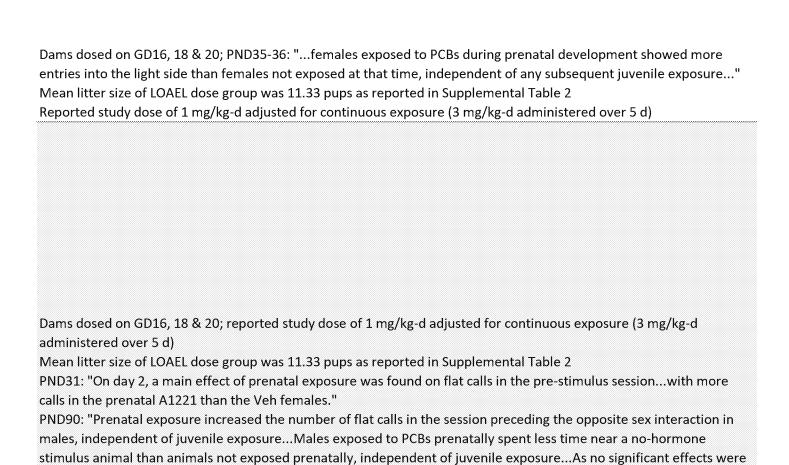
Secondary	
c 1	100001
Secondary	





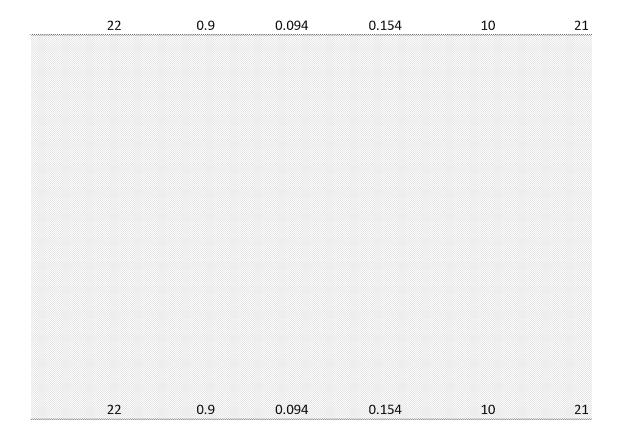


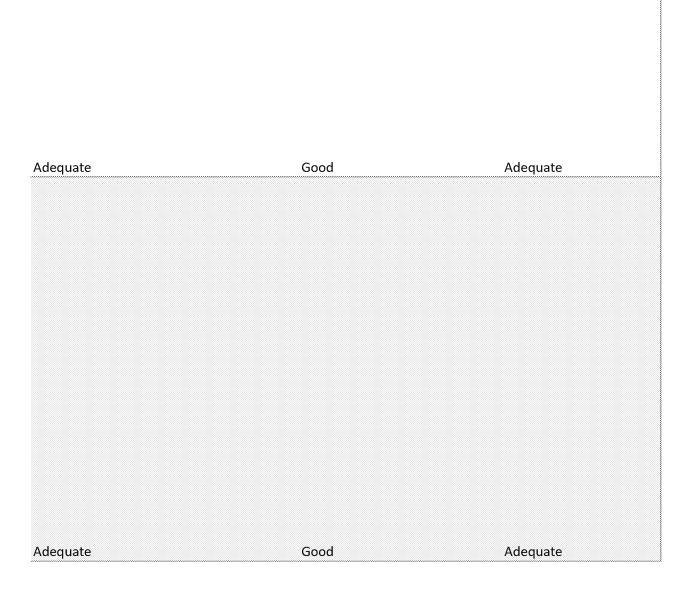




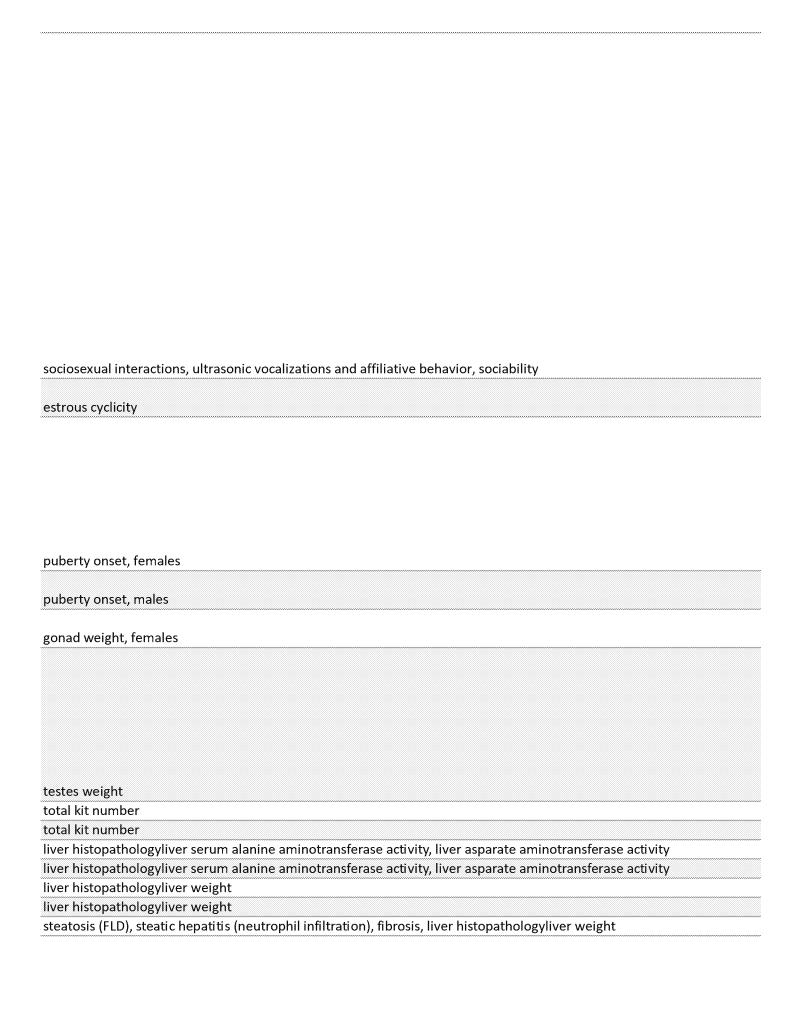
seen on time spent near a hormone stimulus animal...this effect drove the preference for a hormone-treated stimulus

animal in prenatally exposed males..."





Bell et al.	 2016	3351306
	2246	2251226
Bell et al.	 2016	3351306
Bell et al.	2016	3351306
Bell et al.	2016	3351306
D 11 1	2016	2254206
Bell et al.	2016	3351306
Bell et al.	2016	3351306
Folland et al.	 2016	3351480
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Folland et al.	2016	3351480
Folland et al.	2016	3351480
Folland et al. Shan et al.	2016 2015	3351480 3351680
Folland et al. Shan et al. Shan et al.	2016 2015 2015	3351480 3351680 3351680



Social behavior/development	Nervous System
Estrous/menstrual cycle characteristics	Reproductive

Pubertal development, female	Reproductive
Pubertal development, male	Reproductive
Reproductive organ size/weight, female	Reproductive
Reproductive organ size/weight, male	Reproductive
Reproductive organ size/weight, male Gestation length and preterm birth	Reproductive Reproductive
Gestation length and preterm birth	
Gestation length and preterm birth Pregnancy/conception rate	Reproductive
	Reproductive Reproductive
Gestation length and preterm birth Pregnancy/conception rate Liver Histopathology Serum Biomarkers of Liver Health & Function	Reproductive Reproductive Hepatobiliary
Gestation length and preterm birth Pregnancy/conception rate Liver Histopathology	Reproductive Reproductive Hepatobiliary Hepatobiliary

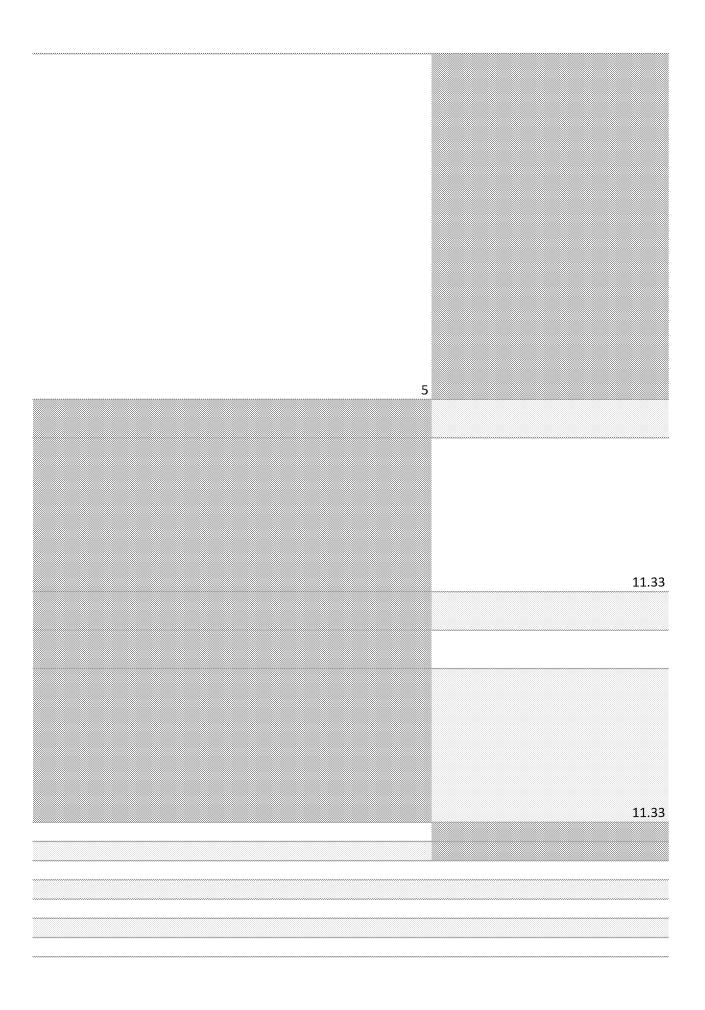
Aroclor 1221 Aroclor 1221 Aroclor 1221 Aroclor 1221 Aroclor 1221 Aroclor 1268 Aroclor 1268 Aroclor 1254 Aroclor 1254 Aroclor 1254 Aroclor 1254 Aroclor 1260

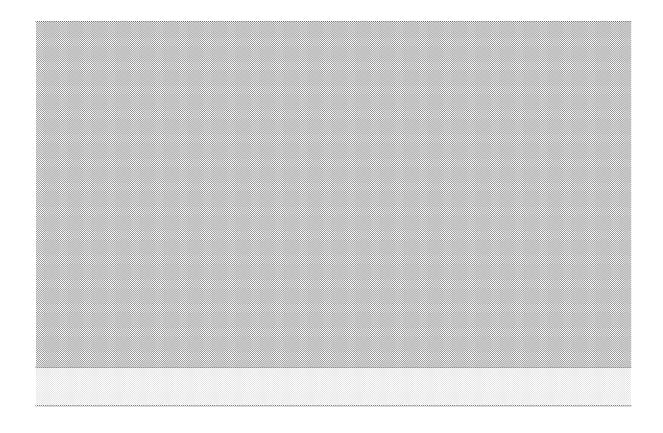
Aroclor 1221

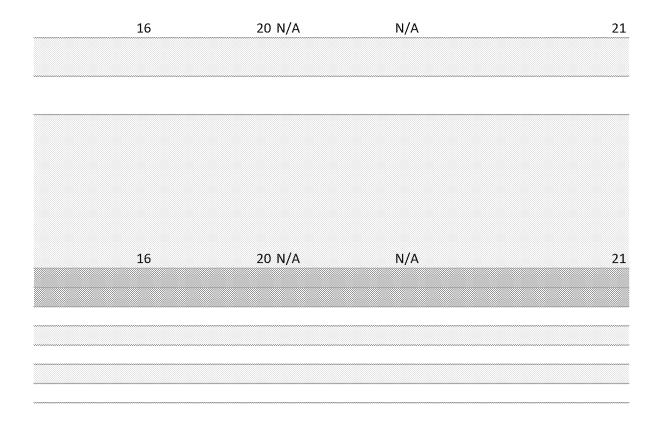
Rat	Injection-ip
Rat	Injection-ip

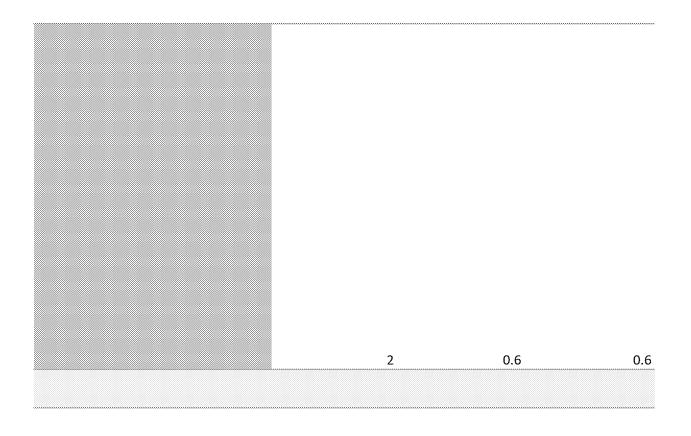
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Rat	Injection-ip
Mink	Oral-diet
Mink	Oral-diet
Mouse	Injection-ip
Mouse	Injection-ip
Rat	Oral-gavage
Rat	Oral-gavage
Mouse	Oral-gavage

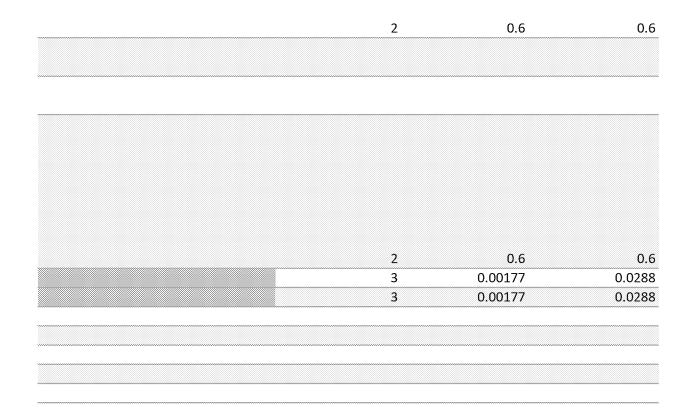
Secondary		
Secondary		
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occonium,		
Secondary		
Primary	730-1095	
Primary	730-1095	

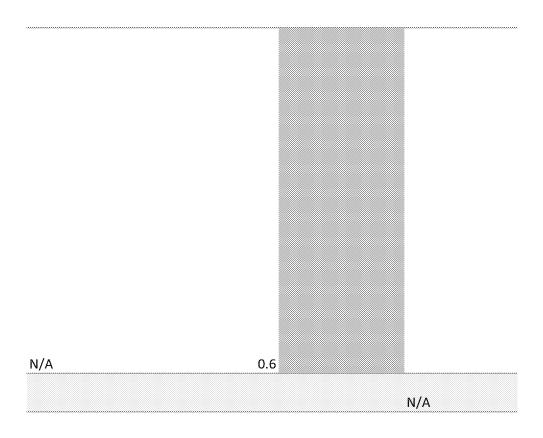


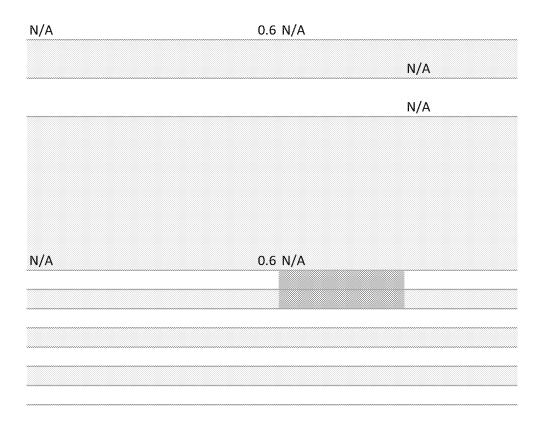












Pups dosed directly on PND 24, 26 & 28; reported study dose of 1 mg/kg-d adjusted for continuous exposure (3 mg/kg-d administered over 5 d)
≥ PND30: "In females, a main effect of juvenile exposure was foundsuch that latency to hop was longer in juvenile A1221 compared to Veh females, regardless of their prenatal exposure"
≥ PND33: "females (but not males) exposed to juvenile PCBs showed a longer latency to reach that area near the stimulus animal"
PND90: "Juvenile exposed males spent more time with the no-hormone female than did unexposed malesThis effect, together with the nonsignificant increase in time spent with the hormone-treated stimulus females, resulted in the observation that males with juvenile exposure spent more time with both stimulus animals than males not exposed at
that time"
Dams dosed on GD16, 18 & 20: > PND33: "Prenatal A1221 exposure delayed vaginal opening by approximately a day in
Dams dosed on GD16, 18 & 20; > PND33: "Prenatal A1221 exposure delayed vaginal opening by approximately a day in females"
females" Mean litter size of LOAEL dose group was 11.33 pups as reported in Supplemental Table 2
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22	0.9	0.094	0.154	10	21
22	ΛQ		0.154		21

	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	22	0.9	0.094	0.154	10	21
	52	0.9	0.312	0.066	5	56
	52	0.9	0.312	0.066	5	56
	18	0.9	0.229	0.264	6	21
	18	0.9	0.229	0.264	6	21
CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
CHECK		0.9 CHECK	CHECK	CHECK	CHECK	
	18	0.9	0.229	0.264	6	21

Adequate	Good	Adequate
Adequate	Good	Adequate
Adequate Adequate	Good	Adequate Adequate
Adequate	Good	Adequate
Adequate	Good	Adequate

Wahlang et al.	2017	3982706
Wahlang et al.	2017	3982706
Gillette et al.	2017	3982717
Gillette et al.	2017	3982717
Gillette et al.	2017	3982717
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Gillette et al.	2017	3982717
Gillette et al. Monaikul et al.	2017 2017	3982717 3983676
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Gillette et al. Monaikul et al. Miller et al. Miller et al.	2017 2017 2017 2017	3982717 3983676 3984651 3984651
Gillette et al. Monaikul et al. Miller et al. Miller et al. Miller et al.	2017 2017 2017 2017 2017	3982717 3983676 3984651 3984651 3985147
Gillette et al. Monaikul et al. Miller et al. Miller et al. Miller et al. Miller et al.	2017 2017 2017 2017 2017 2017	3982717 3983676 3984651 3984651 3985147
Gillette et al. Monaikul et al. Miller et al. Miller et al. Miller et al. Miller et al. Bavithra et al.	2017 2017 2017 2017 2017 2017 2017	3982717 3983676 3984651 3984651 3985147 3985147 3985422

steatosis (FLD), steatic hepatitis (neutrophil infiltration), fibrosis, liver histopathologyliver weight
steatosis (FLD), steatic hepatitis (neutrophil infiltration), fibrosis, liver histopathologyliver weight
AGD
age at eye opening
litter size, resorptions
sex ratio
• • •
pup weight
elevated plus maze and light-dark box (anxiety)
day of vaginal opening
day of preputial separation
testosterone levels in males
operant behavior
activity box
behavioral sensitization to cocaine
operant testing
cocaine self-administration
open field
rotarod
brain histopathology
elevated plus maze, open field

Weight and size (early life)	Developmental
Sex ratio	Developmental
Offspring mortality	Developmental
Developmental milestones	Developmental
Anogenital distance	Developmental
Liver Weight/Hepatomegaly	Hepatobiliary
Liver Lipids/Steatosis	Hepatobiliary

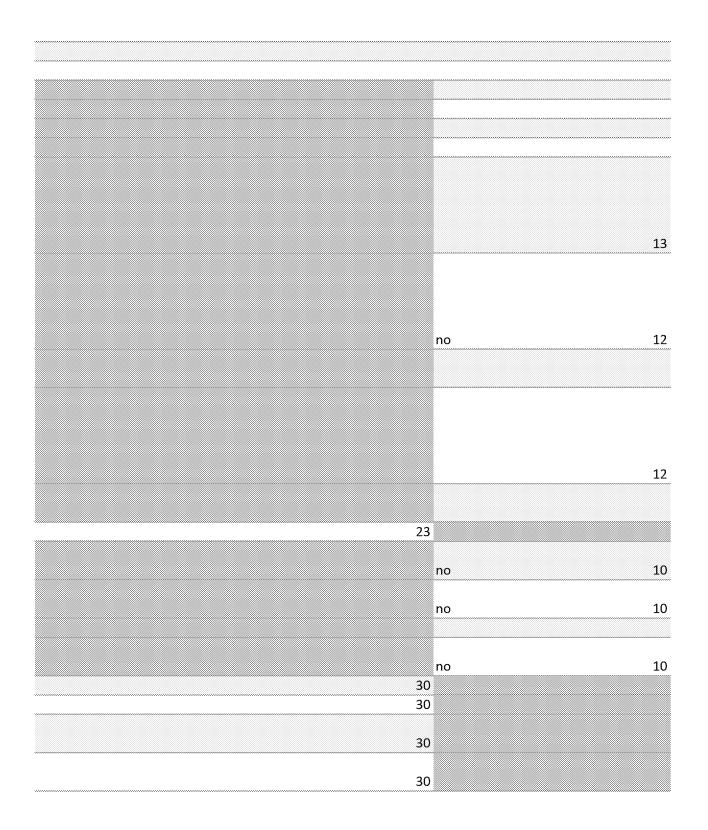
Emotional state/affective behavior	Nervous System
Pubertal development, female	Reproductive

Pubertal development, male	Reproductive
Sex hormone levels, male	Reproductive
Cognitive function	Nervous System
Activity level	Nervous System
Emotional state/affective behavior	Nervous System
Cognitive function	Nervous System
Emotional state/affective behavior	Nervous System
Activity level	Nervous System
Motor function	Nervous System
Brain-histological, structural, morphological	Nervous System
Emotional state/affective behavior	Nervous System

Aroclor 1260	
Aroclor 1260	
Aroclor 1221	
Aroclor 1221	
Aroclor 1221 Aroclor 1221	
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Aroclor 1221 Fox River PCB mixture Fox River PCB mixture	
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Aroclor 1221 Fox River PCB mixture	
Aroclor 1221 Fox River PCB mixture Aroclor 1254	

Mouse	Oral-gavage
Mouse	Oral-gavage
Rat	Injection-ip
Rat	Injection-ip
 Rat	Injection-ip
 Rat	Injection-ip
 Rat	Injection-ip
D .	
 Rat	Injection-ip
ъ.	
 Rat	Injection-ip
D .	
Rat	Injection-ip
 Rat	Injection-ip
 Rat	Oral-syringe
D .	0 1 1:
 Rat	Oral-cookie
D-4	One Leaville
 Rat	Oral-cookie
 Rat	Oral-cookie
D-4	One Leave Live
 Rat	Oral-cookie
 Rat	Injection-ip
 Rat	Injection-ip
D_+	Lateration in
 Rat	Injection-ip
Rat	Injection-ip

Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Secondary	
Primary	27
Secondary	
Secondary	
Secondary	
Secondary	
Primary	NR (180-200 g males)
Primary	NR (180-200 g males)
Primary	NR (180-200 g males)
Primary	NR (180-200 g males)



16	18 N/A	N/A	21
 16	18 N/A	N/A	21
16	18 N/A	N/A	21
 -28	43 N/A	N/A	21
-28	43 N/A	N/A	21
-28	43 N/A	N/A	21

	2	0.33	0.67
82 2	2	0.33	0.67
	2	0.33	0.67
	2	3	6
112 2	2	3	6
112 2	2	3	6
112 2	2	3 2	6 2 2
	2	2	2
	2	2	2
	2	2	2

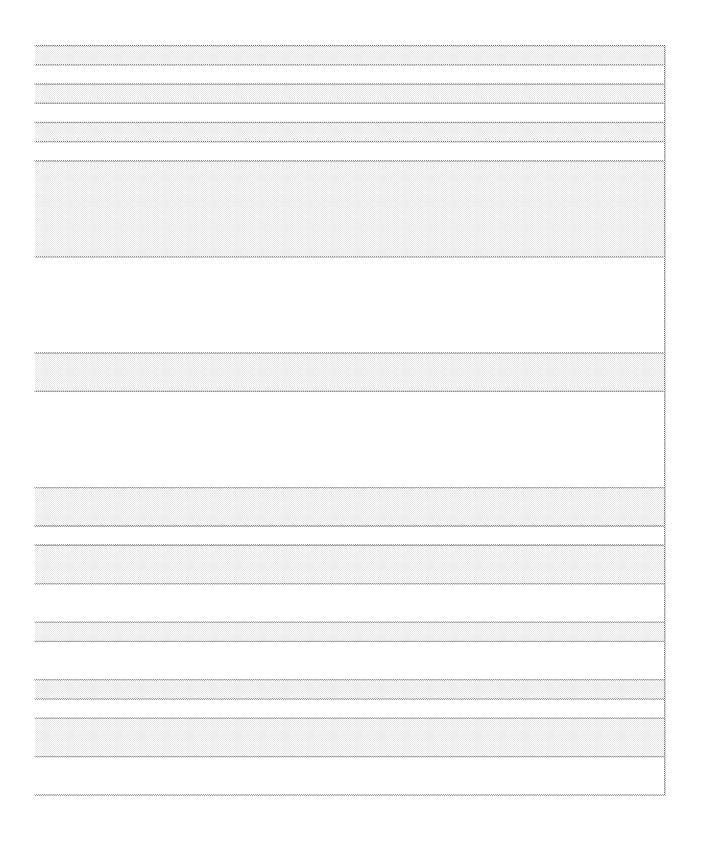
		N/A
		N/A
		N/A
		N/A
1/A	0.33 N/A	

0.33	0.67 N/A	
		~~
	N/A	
	IN/A	
	•	

	0.33	0.67 N/A	
			N/A
N/A		3	
N/A		3 N/A	
	3	6 N/A	
			N/A
	3	6 N/A	
N/A		2	

Effects on pup weight observed by PND21 (0.5 mg/kg-day); AGD = NOAE	L; offspring morta	lity = NOAE	L; sex ratio =	= NOAE
Effects on pup weight observed by PND21				
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18				
Litter size of ~13 estimated from LOAEL dose group data provided in Figu	ıre 1			
Eff. () I I I I I I I I I I I I I I I I I I				
Effects on light:dark box behavior observed at PND60 Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18				
Litter size of ~12 estimated from LOAEL dose group data provided in Figu	ıre 1			
Effects on preputial separation				
Effects on preputial separation Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18				
	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90 Difference in cocaine infusion rate after PND 90	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90 Difference in cocaine infusion rate after PND 90 Litter size NR; use default	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90 Difference in cocaine infusion rate after PND 90 Litter size NR; use default N/A N/A	ure 1			
Doses of 0.5 and 1.0 mg/kg-day administered on GD 16 and 18 Litter size of ~12 estimated from LOAEL dose group data provided in Figure 2. Dosing from PND27-50 Altered activity level at PND90 Litter size NR; use default Altered sensitization to cocaine after PND 90 Difference in cocaine infusion rate after PND 90 Litter size NR; use default N/A	ure 1			

 18	0.9	0.229	0.264	6	21
 18	0.9	0.229	0.264	6	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21 21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
LL	0.3	0.037	0.154	10	
 22	0.9	0.094	0.154	10	21
22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21
 22	0.9	0.094	0.154	10	21



Primary Secondary Primary, pre-weaning